

lenovo

IdeaPad U260

*Hardware
Maintenance
Manual*



Note:

Before using this information and the product it supports, be sure to read the general information under "Notices" on page 72.

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About this manual

This manual contains service and reference information for the following Lenovo IdeaPad product:

Lenovo IdeaPad U260

Use this manual to troubleshoot problems.

The manual is divided into the following sections:

- The common sections provide general information, guidelines, and safety information required for servicing computers.
- The product-specific section includes service, reference, and product-specific parts information.

Important:

This manual is intended only for trained servicers who are familiar with Lenovo IdeaPad products. Use this manual to troubleshoot problems effectively.

Before servicing a Lenovo IdeaPad product, make sure to read all the information under “Safety information” on page 1 and “Important service information” on page 16.

Safety information

This chapter presents the following safety information that you need to get familiar with before you service an IdeaPad U260 computer:

- “General safety” on page 2
- “Electrical safety” on page 3
- “Safety inspection guide” on page 5
- “Handling devices that are sensitive to electrostatic discharge” on page 6
- “Grounding requirements” on page 6
- “Safety notices: multilingual translations” on page 7
- “Laser compliance statement” on page 14

General safety

Follow these rules below to ensure general safety:

- Observe a good housekeeping in the area where the machines are put during and after the maintenance.
- When lifting any heavy object:
 1. Make sure that you can stand safely without slipping.
 2. Distribute the weight of the object equally between your feet.
 3. Use a slow lifting force. Never move suddenly or twist when you attempt to lift it.
 4. Lift it by standing or pushing up with your leg muscles; this action could avoid the strain from the muscles in your back. Do not attempt to lift any object that weighs more than 16 kg (35 lb) or that you think is too heavy for you.
- Do not perform any action that causes hazards to the customer, or that makes the machine unsafe.
- Before you start the machine, make sure that other service representatives and the customer are not in a hazardous position.
- Place removed covers and other parts in a safe place, keeping them away from all personnel, while you are servicing the machine.
- Keep your toolcase away from walk areas so that other people will not trip it over.
- Do not wear loose clothing that can be trapped in the moving parts of the machine. Make sure that your sleeves are fastened or rolled up above your elbows. If your hair is long, fasten it.
- Insert the ends of your necktie or scarf inside clothing or fasten it with the nonconductive clip, about 8 centimeters (3 inches) from the end.
- Do not wear jewelry, chains, metal-frame eyeglasses, or metal fasteners for your clothing.

Attention: Metal objects are good electrical conductors.
- Wear safety glasses when you are hammering, drilling, soldering, cutting wire, attaching springs, using solvents, or working in any other conditions that may be hazardous to your eyes.
- After service, reinstall all safety shields, guards, labels, and ground wires. Replace any safety device that is worn or defective.
- Reinstall all covers correctly before returning the machine to the customer.
- Fan louvers on the machine help to prevent the overheating of internal components. Do not obstruct fan louvers or cover them with labels or stickers.

Electrical safety

Observe the following rules when working on electrical equipments.

Important:

Use only approved tools and test equipments. Some hand tools have handles covered with a soft material that does not insulate you when working with live electrical currents.

Many customers have rubber floor mats near their machines that contain small conductive fibers to decrease electrostatic discharges. Do not use such kind of mat to protect yourself from electrical shock.

- Find the room emergency power-off (EPO) switch, disconnecting the switch or electrical outlet. If an electrical accident occurs, you can then operate the switch or unplug the power cord quickly.
- Do not work alone under hazardous conditions or near the equipment that has hazardous voltages.
- Disconnect all power before:
 - Performing a mechanical inspection
 - Working near power supplies
 - Removing or installing main units
- Before you start to work on the machine, unplug the power cord. If you cannot unplug it, ask the customer to power-off the wall box that supplies power to the machine, and to lock the wall box in the off position.
- If you need to work on a machine that has exposed electrical circuits, observe the following precautions:
 - Ensure that another person, familiar with the power-off controls, is near you.

Attention: Another person must be there to switch off the power, if necessary.

- Use only one hand when working with powered-on electrical equipment; keep the other hand in your pocket or behind your back.

Attention: An electrical shock can occur only when there is a complete circuit. By observing the above rule, you may prevent a current from passing through your body.

- When using testers, set the controls correctly and use the approved probe leads and accessories for that tester.
- Stand on suitable rubber mats (obtained locally, if necessary) to insulate you from grounds such as metal floor strips and machine frames.

Observe the special safety precautions when you work with very high voltages; instructions for these precautions are in the safety sections of maintenance information. Be extremely careful when you measure the high voltages.

- Regularly inspect and maintain your electrical hand tools for safe operational condition.
- Do not use worn or broken tools and testers.
- Never assume that power has been disconnected from a circuit. First, check it to make sure that it has been powered off.

- Always look carefully for possible hazards in your work area. Examples of these hazards are moist floors, nongrounded power extension cables, power surges, and missing safety grounds.
- Do not touch live electrical circuits with the reflective surface of a plastic dental mirror. The surface is conductive; such touching can cause personal injury and machine damage.
- Do not service the following parts with the power on when they are removed from their normal operating places in a machine:
 - Power supply units
 - Pumps
 - Blowers and fans
 - Motor generatorsand similar units. (This practice ensures correct grounding of the units.)
- If an electrical accident occurs:
 - Caution: do not become a victim yourself.
 - Switch off the power.
 - Send the victim to get medical aid.

Safety inspection guide

The purpose of this inspection guide is to assist you in identifying potential unsafe conditions. As each machine was designed and built, required safety items were installed to protect users and service personnel from injury. This guide addresses only those items. You should use good judgment to identify potential safety hazards according to the attachment of non-Lenovo IdeaPad features or options not covered by this inspection guide.

If any unsafe conditions are present, you must determine how serious the apparent hazard could be and whether you can continue without first correcting the problem.

Consider these conditions and the safety hazards they present:

- Electrical hazards, especially primary power (primary voltage on the frame can cause serious or fatal electrical shock)
- Explosive hazards, such as a damaged CRT face or a bulging capacitor
- Mechanical hazards, such as loose or missing hardware

To determine whether there are any potential unsafe conditions, use the following checklist at the beginning of every service task. Begin the checks with the power off, and the power cord disconnected.

Checklist:

1. Check exterior covers for damage (loose, broken, or sharp edges).
2. Turn off the computer. Disconnect the power cord.
3. Check the power cord for:
 - a. A third-wire ground connector in good condition. Use a meter to measure third-wire ground continuity for 0.1 ohm or less between the external ground pin and the frame ground.
 - b. The power cord should be the type specified in the parts list.
 - c. Insulation must not be frayed or worn.
4. Check for cracked or bulging batteries.
5. Remove the cover.
6. Check for any obvious non-Lenovo IdeaPad alterations. Use good judgment as to the safety of any non-Lenovo IdeaPad alterations.
7. Check inside the unit for any obvious unsafe conditions, such as metal filings, contamination, water or other liquids, or signs of fire or smoke damage.
8. Check for worn, frayed, or pinched cables.
9. Check that the power-supply cover fasteners (screws or rivets) have not been removed or tampered with.

Handling devices that are sensitive to electrostatic discharge

Any computer part containing transistors or integrated circuits (ICs) should be considered sensitive to electrostatic discharge (ESD). ESD damage can occur when there is a difference in charge between objects. Protect against ESD damage by equalizing the charge so that the machine, the part, the work mat, and the person handling the part are all at the same charge.

Notes:

1. Use product-specific ESD procedures when they exceed the requirements noted here.
2. Make sure that the ESD protective devices you use have been certified (ISO 9000) as fully effective.

When handling ESD-sensitive parts:

- Keep the parts in protective packages until they are inserted into the product.
- Avoid contact with other people.
- Wear a grounded wrist strap against your skin to eliminate static on your body.
- Prevent the part from touching your clothing. Most clothing is insulative and retains a charge even when you are wearing a wrist strap.
- Use the black side of a grounded work mat to provide a static-free work surface. The mat is especially useful when handling ESD-sensitive devices.
- Select a grounding system, such as those listed below, to provide protection that meets the specific service requirement.

Note:

The use of a grounding system to guard against ESD damage is desirable but not necessary.

- Attach the ESD ground clip to any frame ground, ground braid, or green-wire ground.
- When working on a double-insulated or battery-operated system, use an ESD common ground or reference point. You can use coax or connector-outside shells on these systems.
- Use the round ground prong of the ac plug on ac-operated computers.

Grounding requirements

Electrical grounding of the computer is required for operator safety and correct system function. Proper grounding of the electrical outlet can be verified by a certified electrician.

Safety notices: multilingual translations

The safety notices in this section are provided in English, French, German, Hebrew, Italian, Japanese, and Spanish.

Safety notice 1

Before the computer is powered on after FRU replacement, make sure all screws, springs, and other small parts are in place and are not left loose inside the computer. Verify this by shaking the computer and listening for rattling sounds. Metallic parts or metal flakes can cause electrical shorts.

Avant de remettre l'ordinateur sous tension après remplacement d'une unité en clientèle, vérifiez que tous les ressorts, vis et autres pièces sont bien en place et bien fixées. Pour ce faire, secouez l'unité et assurez-vous qu'aucun bruit suspect ne se produit. Des pièces métalliques ou des copeaux de métal pourraient causer un court-circuit.

Bevor nach einem FRU-Austausch der Computer wieder angeschlossen wird, muß sichergestellt werden, daß keine Schrauben, Federn oder andere Kleinteile fehlen oder im Gehäuse vergessen wurden. Der Computer muß geschüttelt und auf Klappergeräusche geprüft werden. Metallteile oder-splitter können Kurzschlüsse erzeugen.

לפני הפעלת המחשב לאחר החלפת FRU יש לוודא
שכל הברגים, הקפיצים, והלולים קיימים ואינם מונאים
במכנסם או אינם חושפים לווון בפנים המחשב. כדי לוודא
זאת, יש לשליכת עט מהשבר הליטקיוני לילוי קרות שיקוש.
חיליך או שביב מותכת עלילום נלאה לקרים חמיליקים.

Prima di accendere l'elaboratore dopo che è stata effettuata la sostituzione di una FRU, accertarsi che tutte le viti, le molle e tutte le altre parti di piccole dimensioni siano nella corretta posizione e non siano sparse all'interno dell'elaboratore. Verificare ciò scuotendo l'elaboratore e prestando attenzione ad eventuali rumori; eventuali parti o pezzetti metallici possono provocare cortocircuiti pericolosi.

FRU の交換後、コンピュータの電源を入れる前に、ねじ、バネ、その他の小さな部品がすべて正しい位置にあり、またコンピュータの内部で緩んでいないことを確認してください。

これを確認するには、コンピュータを振って、カチャカチャと音がしないか確かめます。金属部品や金属破片はショートの原因になることがあります。

Antes de encender el sistema despues de sustituir una FRU, compruebe que todos los tornillos, muelles y demás piezas pequeñas se encuentran en su sitio y no se encuentran sueltas dentro del sistema. Compruébelo agitando el sistema y escuchando los posibles ruidos que provocarían. Las piezas metálicas pueden causar cortocircuitos eléctricos.

Safety notice 2

⚠ DANGER

Some standby batteries contain a small amount of nickel and cadmium. Do not disassemble a standby battery, recharge it, throw it into fire or water, or short-circuit it. Dispose of the battery as required by local ordinances or regulations. Use only the battery in the appropriate parts listing. Use of an incorrect battery can result in ignition or explosion of the battery.

Certaines batteries de secours contiennent du nickel et du cadmium. Ne les démontez pas, ne les rechargez pas, ne les exposez ni au feu ni à l'eau. Ne les mettez pas en court-circuit. Pour les mettre au rebut, conformez-vous à la réglementation en vigueur. Lorsque vous remplacez la pile de sauvegarde ou celle de l'horloge temps réel, veillez à n'utiliser que les modèles cités dans la liste de pièces détachées adéquate. Une batterie ou une pile inappropriée risque de prendre feu ou d'explorer.

Die Bereitschaftsbatterie, die sich unter dem Diskettenlaufwerk befindet, kann geringe Mengen Nickel und Cadmium enthalten. Sie darf nicht zerlegt, wiederaufgeladen, kurgeschlossen, oder Feuer oder Wasser ausgesetzt werden. Bei der Entsorgung die örtlichen Bestimmungen für Sondermüll beachten. Beim Ersetzten der Bereitschafts-oder Systembatterie nur Batterien des Typs verwenden, der in der Ersatzteilliste aufgeführt ist. Der Einsatz falscher Batterien kann zu Entzündung oder Explosion führen.

טלולות המותג מסוימות מוכחות במקומות
של גיבוב קידוחים או פלכרים טלולים הרחוב,
לשונן או קדרה מודרני. הילשורי או אטז או
פלור או קירור ווחה. יש לשליך את הסוללה
בדריש על ידי התיקונית והוחוקת המוסדות. יש
לחשתטם רך בסוללה מומפעעה ברושימת החלקים
ההמואמא. ישמש סוללה אל מאנטיה עליון
למורים להזנה או החופצות על הסוללה.

Alcune batterie di riserva contengono una piccola quantità di nichel e cadmio. Non smontarle, ricaricarle, gettarle nel fuoco o nell'acqua né cortocircuitarle. Smaltirle secondo la normativa in vigore (DPR 915/82, successive disposizioni e disposizioni locali). Quando si sostituisce la batteria dell'RTC (real time clock) o la batteria di supporto, utilizzare soltanto i tipi inseriti nell'appropriato Catalogo parti. L'impiego di una batteria non adatta potrebbe determinare l'incendio o l'esplosione della batteria stessa.

予備バッテリーの中には少量のニッケルとカドミウムが含まれているものがあります。したがって、予備バッテリーの分解、再充電、火または水の中への投棄、またはショートさせることは決して行わないでください。バッテリーを廃棄する場合は地方自治体の条例に従ってください。適切なパート・リストにあるバッテリーだけを使用してください。誤ったバッテリーを使用すると、バッテリーが発火したり、爆発したりすることがあります。

Algunas baterías de reserva contienen una pequeña cantidad de níquel y cadmio. No las desmonte, ni recargue, ni las eche al fuego o al agua ni las cortocircuite. Deséchelas tal como dispone la normativa local. Utilice sólo baterías que se encuentren en la lista de piezas. La utilización de una batería no apropiada puede provocar la ignición o explosión de la misma.

Safety notice 3**⚠ DANGER**

The battery pack contains small amounts of nickel. Do not disassemble it, throw it into fire or water, or short-circuit it. Dispose of the battery pack as required by local ordinances or regulations. Use only the battery in the appropriate parts listing when replacing the battery pack. Use of an incorrect battery can result in ignition or explosion of the battery.

La batterie contient du nickel. Ne la démontez pas, ne l'exposez ni au feu ni à l'eau. Ne la mettez pas en court-circuit. Pour la mettre au rebut, conformez-vous à la réglementation en vigueur. Lorsque vous remplacez la batterie, veillez à n'utiliser que les modèles cités dans la liste de pièces détachées adéquate. En effet, une batterie inappropriée risque de prendre feu ou d'exploser.

Akkus enthalten geringe Mengen von Nickel. Sie dürfen nicht zerlegt, wiederaufgeladen, kurzgeschlossen, oder Feuer oder Wasser ausgesetzt werden. Bei der Entsorgung die örtlichen Bestimmungen für Sondermüll beachten. Beim Ersetzen der Batterie nur Batterien des Typs verwenden, der in der Ersatzteilliste aufgeführt ist. Der Einsatz falscher Batterien kann zu Entzündung oder Explosion führen.

מארז הסוללה מכיל כמות קטנה של ניקל
ומדיום. אין לפולח את מארז הסוללה. להשליך
אתו לאש או מים או לבלצ' אותו. ש. סלולר את
מארז הסוללה בטלוליה כדרישת החוק
והתקנות המקומיים. יש להעתמס מתקנות
הומולוגים בינלאומיים. יש להעתמס מתקנות
תאורה סוללה. שימוש בטוללה לא מותר על
לגורום להנחתה או החבצות של הסוללה.

La batteria contiene piccole quantità di nichel. Non smontarla, gettarla nel fuoco o nell'acqua né cortocircuitarla. Smaltrala secondo la normativa in vigore (DPR 915/82, successive disposizioni e disposizioni locali). Quando si sostituisce la batteria, utilizzare soltanto i tipi inseriti nell'appropriato Catalogo parti. L'impiego di una batteria non adatta potrebbe determinare l'incendio o l'esplosione della batteria stessa.

パッテリー・パックには少量のニッケルが含まれています。パッテリー・パックを分解したり、火または水の中に投げ込んだり、ショートさせないでください。パッテリー・パックの廃棄にあたっては、地方自治体の条例または規則に従ってください。パッテリー・パックを交換するときは、適切なパーツ。リストにあるパッテリーだけを使用してください。誤ったパッテリーを使用すると、パッテリーが発火したり、爆発したりすることがあります。

Las baterías contienen pequeñas cantidades de níquel. No las desmonte, ni recargue, ni las eche al fuego o al agua ni las cortocircuite. Deséchelas tal como dispone la normativa local. Utilice sólo baterías que se encuentren en la lista de piezas al sustituir la batería. La utilización de una batería no apropiada puede provocar la ignición o explosión de la misma.

Safety notice 4

⚠ DANGER

The lithium battery can cause a fire, an explosion, or a severe burn. Do not recharge it, remove its polarized connector, disassemble it, heat it above 100°C (212°F), incinerate it, or expose its cell contents to water. Dispose of the battery as required by local ordinances or regulations. Use only the battery in the appropriate parts listing. Use of an incorrect battery can result in ignition or explosion of the battery.

La pile de sauvegarde contient du lithium. Elle présente des risques d'incendie, d'explosion ou de brûlures graves. Ne la rechargez pas, ne retirez pas son connecteur polarisé et ne la démontez pas. Ne l'exposez pas à une température supérieure à 100°C, ne la faites pas brûler et n'en exposez pas le contenu à l'eau. Mettez la pile au rebut conformément à la réglementation en vigueur. Une pile inappropriée risque de prendre feu ou d'exploser.

Die Systembatterie ist eine Lithiumbatterie. Sie kann sich entzünden, explodieren oder schwere Verbrennungen hervorrufen. Batterien dieses Typs dürfen nicht aufgeladen, zerlegt, über 100 C erhitzt oder verbrannt werden. Auch darf ihr Inhalt nicht mit Wasser in Verbindung gebracht oder der zur richtigen Polung angebrachte Verbindungsstecker entfernt werden. Bei der Entsorgung die örtlichen Bestimmungen für Sondermüll beachten. Beim Ersetzen der Batterie nur Batterien des Typs verwenden, der in der Ersatzteilliste aufgeführt ist. Der Einsatz falscher Batterien kann zu Entzündung oder Explosion führen.

טלות תליונות עליה לארום שריפה, להנפצתן או להזנה קשחת. אין לטבוע אותה ולהתפרק לחלק תא המחבר המוקוב עלייה. פירק ואורה ואל מטוחו או לאטמזרו. העורב לעל מעילית לילוי. אין לזרע או להשליך און לשוחר אות גזע מתא מילס. ש. שלק או התוליה בדרכם בתקנות והוקמות המקומית. ש. להשמיש כר בטלול המומניה בראש מותחן החקלאים המומאיים. שימוש בטולול אחרה טלית גבון לבתג שירפה או חומצאות.

La batteria di supporto e una batteria al litio e può incendiarsi, esplodere o procurare gravi ustioni. Evitare di ricaricarla, smontarne il connettore polarizzato, smontarla, riscalarla ad una temperatura superiore ai 100 gradi centigradi, incenderla o gettarla in acqua. Smaltirla secondo la normativa in vigore (DPR 915/82, successive disposizioni e disposizioni locali). L'impiego di una batteria non adatta potrebbe determinare l'incendio o l'esplosione della batteria stessa.

リチウム・バッテリーは、火災、爆発、または重症のやけどを引き起こすことがあります。バッカアップ・バッテリーの充電、その極性コネクターの取り外し、バッテリー本体の分解、100 °C (212 °F) 以上への加熱、焼却、電池の中身を水に浸すことなどはしないでください。バッテリーを廃棄する場合は地方自治体の条例に従ってください。適切なバーツ・リストにあるバッテリーだけを使用してください。誤ったバッテリーを使用すると、バッテリーが発火したり、爆発したりすることがあります。

La batería de repuesto es una batería de litio y puede provocar incendios, explosiones o quemaduras graves. No la recargue, ni quite el conector polarizado, ni la desmonte, ni caliente por encima de los 100°C (212°F), ni la incinere ni exponga el contenido de sus celdas al agua. Deséchela tal como dispone la normativa local.

Safety notice 5

If the LCD breaks and the fluid from inside the LCD gets into your eyes or on your hands, immediately wash the affected areas with water at least for 15 minutes. Seek medical care if any symptoms caused by the fluid are present after washing.

Si le panneau d'affichage à cristaux liquides se brise et que vous recevez dans les yeux ou sur les mains une partie du fluide, rincez-les abondamment pendant au moins quinze minutes. Consultez un médecin si des symptômes persistent après le lavage.

Die Leuchtstoffröhre im LCD-Bildschirm enthält Quecksilber. Bei der Entsorgung die örtlichen Bestimmungen für Sondermüll beachten. Der LCD-Bildschirm besteht aus Glas und kann zerbrechen, wenn er unsachgemäß behandelt wird oder der Computer auf den Boden fällt. Wenn der Bildschirm beschädigt ist und die darin befindliche Flüssigkeit in Kontakt mit Haut und Augen gerät, sollten die betroffenen Stellen mindestens 15 Minuten mit Wasser abgespült und bei Beschwerden anschließend ein Arzt aufgesucht werden.

אם מסך הจอ נזול (LCD) שבר והזול מוחך המסך באבעע
עם ליטרים או ליטר, טפל תואזרורם הנוגעים פיד מים במשך
15 דקות לפחות. נסלבת צורה רפואי אם סימנים הנוגעים
מהונע עם הנזול. גמישים לאחר השינוי.

Nel caso che caso l'LCD si dovesse rompere ed il liquido in esso contenuto entrasse in contatto con gli occhi o le mani, lavare immediatamente le parti interessate con acqua corrente per almeno 15 minuti; poi consultare un medico se i sintomi dovessero permanere.

LCD が破損し、LCD の中の液体が目に入ったり、手に触れたりした場合は、液体が触れた部分を少なくとも 15 分間洗い流してください。洗い流した後に、液体によって何らかの症状が現れた場合は、医師の治療を受けてください。

Si la LCD se rompe y el fluido de su interior entra en contacto con sus ojos o sus manos, lave inmediatamente las áreas afectadas con agua durante 15 minutos como mínimo. Obtenga atención médica si se presenta algún síntoma del fluido después de lavarse.

Safety notice 6**⚠ DANGER**

To avoid shock, do not remove the plastic cover that protects the lower part of the inverter card.

Afin d'éviter tout risque de choc électrique, ne retirez pas le cache en plastique protégeant la partie inférieure de la carte d'alimentation.

Aus Sicherheitsgründen die Kunststoffabdeckung, die den unteren Teil der Spannungswandlerplatine umgibt, nicht entfernen.

כדי למנוע חשמל מוגבר, אינן להסיר את מסכת הפלסטיק
המנג על חלקו החתךו של כבrioטיס ההפוך.

Per evitare scosse elettriche, non rimuovere la copertura in plastica che avvolge la parte inferiore della scheda invertitore.

感電を防ぐため、インバーター・カードの下部を保護しているプラスチック・カバーを外さないでください。

Para evitar descargas, no quite la cubierta de plástico que rodea la parte baja de la tarjeta invertida.

Safety notice 7**⚠ DANGER**

Though the main batteries have low voltage, a shorted or grounded battery can produce enough current to burn personnel or combustible materials.

Bien que le voltage des batteries principales soit peu élevé, le court-circuit ou la mise à la masse d'une batterie peut produire suffisamment de courant pour brûler des matériaux combustibles ou causer des brûlures corporelles graves.

Obwohl Hauptbatterien eine niedrige Spannung haben, können sie doch bei Kurzschluß oder Erdung genug Strom abgeben, um brennbare Materialien zu entzünden oder Verletzungen bei Personen hervorzurufen.

אף שהbateries הראשיות הן בעלות מתח נמוך, סוללה
מוקנית או מופרעת עלולה להפיק זרם מספק ו/or ריגימות
כיווית או להצתת חומרים דלקים.

Sebbene le batterie di alimentazione siano a basso voltaggio, una batteria in corto circuito o a massa può fornire corrente sufficiente da bruciare materiali combustibili o provocare ustioni ai tecnici di manutenzione.

メイン・バッテリーの電圧は低くても、ショートしたり、接地したバッテリーが、作業者にやけどを負わせたり、可燃物を燃やすだけの電流を発生させる場合があります。

Aunque las baterías principales tienen un voltaje bajo, una batería cortocircuitada o con contacto a tierra puede producir la corriente suficiente como para quemar material combustible o provocar quemaduras en el personal.

Safety notice 8

⚠ DANGER

Before removing any FRU, turn off the computer, unplug all power cords from electrical outlets, remove the battery pack, and then disconnect any interconnecting cables.

Avant de retirer une unité remplaçable en clientèle, mettez le système hors tension, débranchez tous les cordons d'alimentation des socles de prise de courant, retirez la batterie et déconnectez tous les cordons d'interface.

Die Stromzufuhr muß abgeschaltet, alle Stromkabel aus der Steckdose gezogen, der Akku entfernt und alle Verbindungskabel abgenommen sein, bevor eine FRU entfernt wird.

לפני סילוק FRU כלשהו, יש לכבות את המחשב, לנתק תא לא כל חוטי חיבור, להוציא את אמצעי תקשורת, או לטעם כל חיבור אחר אם יש כאלה.

Prima di rimuovere qualsiasi FRU, spegnere il sistema, scollegare dalle prese elettriche tutti i cavi di alimentazione, rimuovere la batteria e poi scollegare i cavi di interconnessione.

FRUを取り外す前に、ThinkPad の電源を切って、すべての電源コードをコンセントから外してください。次に、バッテリー・パックを外し、相互接続ケーブルを外してください。

Antes de quitar una FRU, apague el sistema, desenchufe todos los cables de las tomas de corriente eléctrica, quite la batería y, a continuación, desconecte cualquier cable de conexión entre dispositivos.

Laser compliance statement

Some models of Lenovo IdeaPad computer are equipped from the factory with an optical storage device such as a CD-ROM drive or a DVD-ROM drive. Such devices are also sold separately as options. If one of these drives is installed, it is certified in the U.S. to conform to the requirements of the Department of Health and Human Services 21 Code of Federal Regulations (DHHS 21 CFR) Subchapter J for Class 1 laser products. Elsewhere, the drive is certified to conform to the requirements of the International Electrotechnical Commission (IEC) 825 and CENELEC EN 60 825 for Class 1 laser products.

If a CD-ROM drive, a DVD-ROM drive, or another laser device is installed, note the following:

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein might result in hazardous radiation exposure.

O uso de controles, ajustes ou desempenho de procedimentos diferentes daqueles aqui especificados pode resultar em perigosa exposição à radiação.

凡未在这里指明的任何控制用法、调整、行为，
都会导致严重后果。

Pour éviter tout risque d'exposition au rayon laser, respectez les consignes de réglage et d'utilisation des commandes, ainsi que les procédures décrites.

Werden Steuer- und Einstellelemente anders als hier festgesetzt verwendet, kann gefährliche Laserstrahlung auftreten.

Az itt előírt eljárásoktól, beállításoktól és vezérlésekktől eltérni a lézersugárzás veszélye miatt kockázatos !

L'utilizzo di controlli, regolazioni o l'esecuzione di procedure diverse da quelle specificate possono provocare l'esposizione a.

Использование элементов настройки и выполнение процедур иных, чем указано здесь, может привести к опасному радиационному облучению.

Použíteľ konôr, úprav alebo iných vykonaní od iných výrobcov, aké je v tomto špecifikované, môžlo by mať za následok nebezpečenstvo vystavenia sa vyzárovaniu.

本書で指定された内容以外の、お客様による整備、調整、または手順を行つた場合、レーザー光の放射の危険があります。

El uso de controles o ajustes o la ejecución de procedimientos distintos de los aquí especificados puede provocar la exposición a radiaciones peligrosas.

Opening the CD-ROM drive, the DVD-ROM drive, or any other optical storage device could result in exposure to hazardous laser radiation. There are no serviceable parts inside those drives. **Do not open.**

A CD-ROM drive, a DVD-ROM drive, or any other storage device installed may contain an embedded Class 3A or Class 3B laser diode. Note the following:

DANGER

Emits visible and invisible laser radiation when open. Do not stare into the beam, do not view directly with optical instruments, and avoid direct exposure to the beam.

Radiação por raio laser ao abrir. Não olhe fixo no feixe de luz, não olhe diretamente por meio de instrumentos ópticos e evite exposição direta com o feixe de luz.

开启时会有激光发射时，请勿盯视激光光束，请勿直接查看视觉仪器，并且避免直接接触在激光光束之中。

Rayonnement laser si carter ouvert. Évitez de fixer le faisceau, de le regarder directement avec des instruments optiques, ou de vous exposer au rayon.

Laserstrahlung bei geöffnetem Gerät. Nicht direkt oder über optische Instrumente in den Laserstrahl sehen und den Strahlungsbereich meiden.

Kinyitáskor lézersugár ! Ne nézzen bele se szabad szemmel, se optikai eszközökkel. Kerülje a sugárnyalábbal való érintkezést!

Aprendo l'unità vengono emesse radiazioni laser. Non fissare il fascio, non guardarlo direttamente con strumenti ottici e evitare l'esposizione diretta al fascio.

Открывая, берегитесь лазерного излучения.
Не смотрите на луч, не разглядывайте его
с помощью оптических инструментов, а также
избегайте прямого воздействия лазерного луча.

Ked je laserová jednotka otvorená. Vyhnite sa priamemu pohľadu a nehládte priamo s optickými nástrojmi do lúča a vyhnite sa priamemu vystaveniu lúčov.

開けるとレーザー光が放射されます。光線を見つめたり、光学機械を使って直接見たりしないでください。

Radiación láser al abrir. No mire fijamente ni examine con instrumental óptico el haz de luz. Evite la exposición directa al haz.

Important service information

This chapter presents the following important service information:

- “Strategy for replacing FRUs” on page 16
 - “Strategy for replacing a hard disk drive” on page 17
 - “Important notice for replacing a system board ” on page 17
- “Important information about replacing RoHS compliant FRUs” on page 18

Important:

BIOS and device driver fixes are customer-installable. The BIOS and device drivers are posted on the customer support site:
<http://consumersupport.lenovo.com/>.

Strategy for replacing FRUs

Before replacing parts:

Make sure that all software fixes, drivers, and BIOS downloads are installed before replacing any FRUs listed in this manual.

After a system board is replaced, ensure that the latest BIOS is loaded to the system board before completing the service action.

To download software fixes, drivers, and BIOS, follow the steps below:

1. Go to <http://consumersupport.lenovo.com/>.
2. Enter a serial number or select a product or use Lenovo smart downloading.
3. Select the BIOS/Driver/Applications and download.
4. Follow the directions on the screen and install the necessary software.

Use the following strategy to prevent unnecessary expense for replacing and servicing FRUs:

- If you are instructed to replace an FRU, but the replacement does not solve the problem, reinstall the original FRU before you continue.
- Some computers have both a processor board and a system board. If you are instructed to replace either of them, and replacing one of them does not solve the problem, reinstall that board, and then replace the other one.
- If an adapter or a device consists of more than one FRU, any of the FRUs may be the cause of the error. Before replacing the adapter or device, remove the FRUs one by one to see if the symptoms change. Replace only the FRU that changed the symptoms.

Attention: The setup configuration on the computer you are servicing may have been customized. Running Automatic Configuration may alter the settings. Note the current configuration settings (using the View Configuration option); then, when service has been completed, verify that those settings remain in effect.

Strategy for replacing a hard disk drive

Always try to run a low-level format before replacing a hard disk drive. This will cause all customer data on the hard disk to be lost. Make sure that the customer has a current backup of the data before performing this action.

Attention: The drive startup sequence in the computer you are servicing may have been changed. Be extremely careful during write operations such as copying, saving, or formatting. If you select an incorrect drive, data or programs can be overwritten.

Important notice for replacing a system board

Some components mounted on a system board are very sensitive. Improper handling can cause damage to those components, and may cause a system malfunction.

Attention: When handling a system board:

- Do not drop the system board or apply any excessive force to it.
- Avoid rough handling of any kind.
- Avoid bending the system board and hard pushing to prevent cracking at each BGA (Ball Grid Array) chipset.

Important information about replacing RoHS compliant FRUs

RoHS, The Restriction of Hazardous Substances in Electrical and Electronic Equipment Directive (2002/95/EC) is a European Union legal requirement affecting the global electronics industry. RoHS requirements must be implemented on Lenovo products placed on the market after June 2006. Products on the market before June 2006 are not required to have RoHS compliant parts. If the original FRU parts are non-compliant, replacement parts can also be non-compliant. In all cases if the original FRU parts are RoHS compliant, the replacement part must also be RoHS compliant.

Note: RoHS and non-RoHS FRU part numbers with the same fit and function are identified with unique FRU part numbers.

Lenovo plans to transit to RoHS compliance well before the implementation date and expects its suppliers to be ready to support Lenovo's requirements and schedule in the EU. Products sold in 2005 and 2006 will contain some RoHS compliant FRUs. The following statement pertains to these products and any product Lenovo produces containing RoHS compliant FRUs.

RoHS compliant FRUs have unique FRU part numbers. Before or after the RoHS implementation date, failed RoHS compliant parts must always be replaced with RoHS compliant ones, so only the FRUs identified as compliant in the system HMM or direct substitutions for those FRUs may be used.

Products marketed before June 2006		Products marketed after June 2006	
Current or original part	Replacement FRU	Current or original part	Replacement FRU
Non-RoHS	Can be Non-RoHS	Must be RoHS	Must be RoHS
Non-RoHS	Can be RoHS		
Non-RoHS	Can sub to RoHS		
RoHS	Must be RoHS		

Note: A direct substitution is a part with a different FRU part number that is automatically shipped by the distribution center at the time of the order.

General checkout

This chapter presents the following information:

- “What to do first” on page 20
- “Power system checkout” on page 21

Before you go to the checkout, make sure to read the following important notes:

Important notes:

- **Only certified trained personnel can service the computer.**
- **Before replacing any FRU, read the entire page on removing and replacing FRUs.**
- **When you replace FRUs, use new nylon-coated screws.**
- **Be extremely careful during such write operations as copying, saving, or formatting.** Drives in the computer that you are servicing sequence might have been altered. If you select an incorrect drive, data or programs might be overwritten.
- **Replace an FRU only with another FRU of the correct model.** When you replace an FRU, make sure that the machine model and the FRU part number are correct by referring to the FRU parts list.
- **An FRU should not be replaced just because of a single, unreproducible failure.** Single failures can occur for a variety of reasons that have nothing to do with a hardware defect, such as cosmic radiation, electrostatic discharge, or software errors. Consider replacing an FRU only when a problem recurs. If you suspect that an FRU is defective, clear the error logs and run the test again. If the error does not recur, do not replace the FRU.
- **Be careful not to replace a nondefective FRU.**

What to do first

When you do return an FRU, you must include the following information in the parts exchange form or parts return form that you attach to it:

1. Name and phone number of servicer
2. Date of service
3. Date on which the machine failed
4. Date of purchase
5. Procedure index and page number in which the failing FRU was detected
6. Failing FRU name and part number
7. Machine type, model number, and serial number
8. Customer's name and address

Note for warranty: During the warranty period, the customer may be responsible for repair costs if the computer damage was caused by misuse, accident, modification, unsuitable physical or operating environment, or improper maintenance by the customer.

The following is a list of some common items that are not covered under warranty and some symptoms that might indicate that the system was subjected to stress beyond normal use.

Before checking problems with the computer, determine whether the damage is covered under the warranty by referring to the following list:

The following are not covered under warranty:

- LCD panel cracked from the application of excessive force or from being dropped
- Scratched (cosmetic) parts
- Distortion, deformation, or discoloration of the cosmetic parts
- Plastic parts, latches, pins, or connectors that have been cracked or broken by excessive force
- Damage caused by liquid spilled into the system
- Damage caused by the improper insertion of a PC Card or the installation of an incompatible card
- Improper disc insertion or use of an optical drive
- Diskette drive damage caused by pressure on the diskette drive cover, foreign material in the drive, or the insertion of a diskette with multiple labels
- Damaged or bent diskette eject button
- Fuses blown by attachment of a nonsupported device
- Forgotten computer password (making the computer unusable)
- Sticky keys caused by spilling a liquid onto the keyboard
- Use of an incorrect AC adapter on laptop products

The following symptoms might indicate damage caused by nonwarranted activities:

- Missing parts might be a symptom of unauthorized service or modification.
- If the spindle of a hard disk drive becomes noisy, it may have been subjected to excessive force, or dropped.

Power system checkout

To verify a symptom, follow the steps below:

1. Turn off the computer.
2. Remove the battery pack.
3. Connect the AC adapter.
4. Make sure that power is supplied when you turn on the computer.
5. Turn off the computer.
6. Disconnect the AC adapter and install the charged battery pack.
7. Make sure that the battery pack supplies power when you turn on the computer.

If you suspect a power problem, see the appropriate one of the following power supply checkouts:

- “Checking the AC adapter” on page 21
- “Checking operational charging” on page 21
- “Checking the battery pack” on page 22

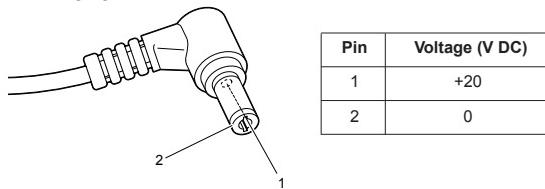
Checking the AC adapter

You are here because the computer fails only when the AC adapter is used.

- If the power-on indicator does not turn on, check the power cord of the AC adapter for correct continuity and installation.
- If the computer does not charge during operation, go to “Checking operational charging”.

To check the AC adapter, follow the steps below:

1. Unplug the AC adapter cable from the computer.
2. Measure the output voltage at the plug of the AC adapter cable. See the following figure:



Note: Output voltage for the AC adapter pin No. 2 may differ from the one you are servicing.

3. If the voltage is not correct, replace the AC adapter.
4. If the voltage is acceptable, do the following:
 - Replace the system board.
 - If the problem continues, go to “Lenovo IdeaPad U260” on page 27.

Note: Noise from the AC adapter does not always indicate a defect.

Checking operational charging

To check whether the battery charges properly during operation, use a discharged battery pack or a battery pack that has less than 50% of the total power remaining when installed in the computer.

Perform operational charging. If the battery status indicator or icon does not light on, remove the battery pack and let it return to room temperature. Reinstall the battery pack. If the charge indicator or icon is still off, replace the battery pack.

If the charge indicator still does not light on, replace the system board. Then reinstall the battery pack. If it is still not charged, go to the next section.

Checking the battery pack

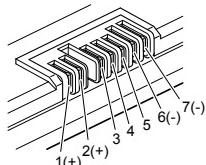
Battery charging does not start until the Power Meter shows that less than 95% of the total power remains; under this condition the battery pack can charge to 100% of its capacity. This protects the battery pack from being overcharged or from having a shortened life.

To check your battery, move your cursor to the Power Meter icon in the icon tray of the Windows® taskbar and wait for a moment (but do not click it), and the percentage of battery power remaining is displayed. To get detailed information about the battery, double-click the Power Meter icon.

Note: If the battery pack becomes hot, it may not be able to be charged. Remove it from the computer and leave it at room temperature for a while. After it cools down, reinstall and recharge it.

To check the battery pack, follow the steps below:

1. Turn off the computer.
2. Remove the battery pack and measure the voltage between battery terminals 1 (+) and 7 (-). See the following figure:



Terminal	Voltage (V DC)
1	+0 to +14
7	Ground (-)

3. If the voltage is less than +11.0 V DC, the battery pack has been discharged.

Note: Recharging will be continued for at least 3 hours, even though the indicator does not light on.

If the voltage is still less than +11.0 V DC after recharging, replace the battery.

4. If the voltage is more than +11.0 V DC, measure the resistance between battery terminals 5 and 7. The resistance must be 4 to 30 KΩ.

If the resistance is not correct, replace the battery pack. If the resistance is correct, replace the system board.

Related service information

This chapter presents the following information:

- “Restoring the factory contents by using OneKey Recovery” on page 23
- “Passwords” on page 24
- “Power management” on page 25

Restoring the factory contents by using OneKey Recovery

Restore of factory default

The IdeaPad U260 computers come with pre-installed OneKey Rescue System. In order to save application files and the initial backed up files of the system, the hard disk in a Lenovo computer includes a hidden partition when it is shipped. If you need to restore the system to the point of your first boot up, just enter Lenovo OneKey Rescue System and run **Restore to factory default**. For details of OneKey Rescue System, see *the User Guide for OneKey Rescue System*.

Note: This will delete all the new data on the system partition (C drive), which is not recoverable. Make sure to back up your critical data before you perform this action.

Using recovery discs

When you replace a hard disk drive in your computer, you are unable to use the pre-installed Lenovo OneKey Recovery and OneKey Rescue. However, you can use the recovery discs that store your backed up data to restore your new hard drive to a previous backup status.

Note: You can create recovery discs by burning the backup image to a CD/DVD as recovery discs. For details of **Create recovery discs**, see *the User Guide for OneKey Rescue System*.

When you use the recovery discs to boot your computer, the system will enter the user interface for system recovery automatically. Please follow the prompt to insert the backup discs to complete the whole recovery process.

Note: The recovery process might take up to 2 hours.

Passwords

As many as two passwords may be needed for any Lenovo IdeaPad computer: the power-on password (POP) and the supervisor password (SVP).

If any of these passwords has been set, a prompt for it appears on the screen whenever the computer is turned on. The computer does not start until the password is entered.

Exception: If only an SVP is installed, the password prompt does not appear when the operating system is booted.

Power-on password

A power-on password (POP) protects the system from being powered on by an unauthorized person. The password must be entered before an operating system can be booted.

Supervisor password

A supervisor password (SVP) protects the system information stored in the BIOS Setup Utility. The user must enter the SVP in order to get access to the BIOS Setup Utility and change the system configuration.

Attention: If the SVP has been forgotten and cannot be made available to the servicer, there is no service procedure to reset the password. The system board must be replaced for a scheduled fee.

Power management

Note: Power management modes are not supported for APM operating system.

To reduce power consumption, the computer has three power management modes: screen blank, sleep (standby), and hibernation.

Screen blank mode

If the time set on the “Turn off monitor” timer in the operating system expires, the LCD backlight turns off. You can also turn off the LCD backlight by pressing Fn+F2.

To end screen blank mode and resume normal operation, press any key.

Sleep (standby) mode

When the computer enters sleep (standby) mode, the following events occur in addition to what occurs in screen blank mode:

- The LCD is powered off.
- The hard disk drive is powered off.
- The CPU stops.

To enter sleep (standby) mode, press Fn+F1.

In certain circumstances, the computer goes into sleep (standby) mode automatically:

- If a “suspend time” has been set on the timer, and the user does not do any operation with the keyboard, the hard disk, the parallel connector, or the diskette drive within that time.
- If the battery indicator is amber, indicating that the battery power is low. (Alternatively, if **Hibernate when battery becomes low** has been selected in the “Power Management Properties” window, the computer goes into hibernation mode.)

To cause the computer to return from sleep (standby) mode and resume the operation, do one of the following:

- Press the Fn key.
- Open the lid.
- Turn on the power switch.

Also, in the following event, the computer automatically returns from sleep (standby) mode and resumes the operation:

- The time set on the resume timer elapses.

Note: The computer does not accept any input immediately after it enters sleep (standby) mode. Wait a few seconds before taking any action to reenter operation mode.

Hibernation mode

In hibernation mode, the following occurs:

- The system status, RAM, VRAM, and setup data are stored on the hard disk.
- The system is powered off.

To cause the computer to enter hibernation mode, follow the steps below:

- If you are using the ACPI operating system and have defined one of the following actions as the event that causes the system to go into hibernation mode, perform that action:
 - Closing the lid.
 - Pressing the power button.

Also, the computer goes into hibernation mode automatically in either of the following conditions:

- If a "hibernation time" has been set on the timer, and if the user does not do any operation with the keyboard, the hard disk drive, the parallel connector, or the diskette drive within that time.
- If the timer conditions are satisfied in suspend mode.

When the power is turned on, the computer returns from hibernation mode and resumes operation. The hibernation file in the boot record on the hard disk drive is read, and system status is restored from the hard disk drive.

Lenovo IdeaPad U260

This chapter presents the following product-specific service references and product-specific parts information:

- “Specifications” on page 27
- “Status indicators” on page 29
- “Fn key combinations” on page 31
- “FRU replacement notices” on page 32
- “Removing and replacing an FRU” on page 33
- “Locations” on page 58
- “Parts list” on page 60

Specifications

The following table lists the specifications of the Lenovo IdeaPad U260 :

Table 1. Specifications

Feature	Description
Processor	<ul style="list-style-type: none"> • Intel Core ULV Processors (Arrandale) (BGA)
Core Chipset	<ul style="list-style-type: none"> • Intel QS57
Bus architecture	<ul style="list-style-type: none"> • 800MHz DDR3 • FDI • DMI • PCI Express bus • PCI bus
Graphic memory chip	<ul style="list-style-type: none"> • Intel QS57 Integrated
Display	<ul style="list-style-type: none"> • 12.5" W, 16:9, 1366x768 pixels HD (>220 nit), White LED panel
Standard memory	<ul style="list-style-type: none"> • DDR3-1066MHz SoDIMM x1 (max 4GB)(Support Dual Channel)
CMOS RAM	<ul style="list-style-type: none"> • 256 bytes
Hard disk drive	<ul style="list-style-type: none"> • 2.5" SATA 160/250/320G (5400rpm) • 64GB SSD (2.5"inch 7mm) (Tech ready)
Optical drive	<ul style="list-style-type: none"> • 2.5" External 12.7mm USB RAMBO

Table 1. Specifications (continued)

Feature	Description
I/O port	<ul style="list-style-type: none"> • External monitor connector • Stereo headphone jack • Microphone jack • RJ45 x 1 (on planar) • HDMI port • USB2.0 x 2 (on planar)
MODEM slot	<ul style="list-style-type: none"> • N/A
Audio	<ul style="list-style-type: none"> • 1/8" Stereo Headphone Output & Microphone input combo jack • 2 x 1W speakers • 1 x Internal digital Microphone
Video	<ul style="list-style-type: none"> • CRT port x 1 (on planar), HDMI port x 1 (on planar)
Ethernet (on the system board)	<ul style="list-style-type: none"> • 10/100/1000M, Artheros 8151
PCI Express Mini Card slot	<ul style="list-style-type: none"> • 1 slot, support Lenovo b/g/n WLAN, not support Wireless WAN (3G)
Bluetooth wireless	<ul style="list-style-type: none"> • Built-in antenna with min-USB interface, select Models
Keyboard	<ul style="list-style-type: none"> • 6 Row, ISO Full Size Keyboard
Touch pad	<ul style="list-style-type: none"> • Multi-touch type
Integrated camera	<ul style="list-style-type: none"> • All Models • USB 2.0, Fixed Focus CMOS camera, 0.3 Million pixels
Battery	<ul style="list-style-type: none"> • 39 Wh, 4 cells Li-Polymer Battery
AC adapter	<ul style="list-style-type: none"> • 40W 20V
Pre-installed operating system	<ul style="list-style-type: none"> • Win 7 Home Basic/Premium (32bit/64bit)

Status indicators

The system status indicators below show the computer status:

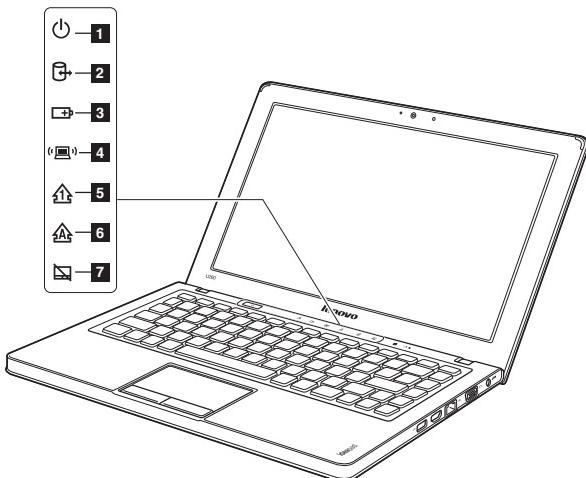


Table 2. Status indicators

Indicator	Meaning
1 Power on 	White: System is enabled. Blinking white: System is in sleep mode. Off: System is in hibernate mode or shut down.
2 Drive in use 	White: Data is being read from or written to the hard disk drive or the solid state drive. When this indicator is on, do not put the computer into standby mode or turn off the computer. Note: Do not move the system while the white drive-in-use light is on. Sudden physical shock could cause drive errors.

Table 2. Status indicators (continued)

Indicator	Meaning
3 	Blinking amber: (500ms off/1s on) The remaining power of the battery is less than 5% of its capacity. Blinking amber: (100ms off/3.2s on) The battery is being charged with the remaining power between 5% and 20% of its capacity. Amber: The computer is operating on battery power with the remaining power between 5% and 20% of its capacity. Blinking white: The battery is being charged with the remaining power between 20% and 80% of its capacity. White: The remaining power of the battery is more than 80% of its capacity, or the computer is operating on battery power with the remaining power between 20% and 80% of its capacity.
4 	White: The wireless LAN radio is turned on and connected to AP. Blinking white: The wireless LAN is switched on and the radio of it is also turned off, or the wireless LAN radio is turned on and not connected to AP. Flashing white: The wireless LAN radio is turned on and data is being transmitted. Off: The wireless LAN is switched off and the radio of it is also turned off.
5 	White: The numeric keypad on the keyboard is enabled. To enable or disable the keypad, press and hold the Fn key, and press the F8 (NumLk) key.
6 	White: Caps Lock mode is enabled. You can enter all alphabetic characters (A-Z) in uppercase without pressing the Shift key. To enable or disable Caps Lock mode, press the CapsLk key.
7 	White: The touchpad is disabled. To enable or disable the touchpad, press and hold the Fn key, and press the F6 key.

Fn key combinations

The following table shows the function of each combination of Fn with a function key.

Table 4. Fn key combinations

Key combination	Description
Fn + Esc:	Turn on/off the integrated camera.
Fn + F1:	Enter sleep mode.
Fn + F2:	Turn on/off the backlight of the LCD screen.
Fn + F3:	Open the interface for the display device switch to select this notebook or an external display.
Fn + F4:	Open the interface for display resolution settings.
Fn + F5:	Open the interface for integrated wireless devices settings (on/off).
Fn + F6:	Enable/Disable the touchpad.
Fn + F8:	Enable/Disable the numeric keypad.
Fn + F9:	Start/Pause playback of Windows Media Player.
Fn + F10:	Stop playback of Windows Media Player.
Fn + F11:	Skip to the previous track.
Fn + F12:	Skip to the next track.
Fn + PrtSc:	Activate the system request.
Fn + Home:	Activate the pause function.
Fn + End:	Activate the break function.
Fn + PgUp:	Enable/Disable the scroll lock.
Fn + PgDn:	Activate the insert function.
Fn + ↑/ ↓:	Increase/Decrease display brightness.
Fn + →/ ←:	Increase/Decrease sound volume.

FRU replacement notices

This section presents notices related to removing and replacing parts. Read this section carefully before replacing any FRU.

Screw notices

Loose screws can cause a reliability problem. In the Lenovo IdeaPad computer, this problem is addressed with special nylon-coated screws that have the following characteristics:

- They maintain tight connections.
- They do not easily come loose, even with shock or vibration.
- They are harder to tighten.
- Each one should be used only once.

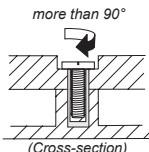
Do the following when you service this machine:

- Keep the screw kit in your tool bag.
- Always use new screws.
- Use a torque screwdriver if you have one.

Tighten screws as follows:

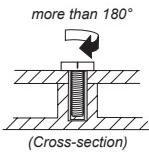
- **Plastic to plastic**

Turn an additional 90° after the screw head touches the surface of the plastic part:



- **Logic card to plastic**

Turn an additional 180° after the screw head touches the surface of the logic card:



- **Torque driver**

- If you have a torque screwdriver , refer to the “Torque” column for each step.
- Make sure that you use the correct screws. If you have a torque screwdriver, tighten all screws firmly to the torque shown in the table. **Never use a screw that you removed. Use a new one. Make sure that all screws are tightened firmly.**
 - Ensure torque screwdrivers are calibrated correctly following country specifications.

Removing and replacing an FRU

This section presents exploded figures with the instructions to indicate how to remove and replace the FRU. Make sure to observe the following general rules:

1. Do not attempt to service any computer unless you have been trained and certified. An untrained person runs the risk of damaging parts.
2. Before replacing any FRU, review "FRU replacement notices" on page 32.
3. Begin by removing any FRUs that have to be removed before the failing FRU. Any of such FRUs are listed at the top of the page. Remove them in the order in which they are listed.
4. Follow the correct sequence in the steps to remove the FRU, as given in the figures by the numbers in square callouts.
5. When turning a screw to replace an FRU, turn it in the direction as given by the arrow in the figure.
6. When removing the FRU, move it in the direction as given by the arrow in the figure.
7. To put the new FRU in place, reverse the removal procedures and follow any of the notes that pertain to replacement. For information about connecting and arranging internal cables, see "Locations" on page 58.
8. When replacing an FRU, use the correct screw as shown in the procedures.

DANGER

Before removing any FRU, turn off the computer, unplug all power cords from electrical outlets, remove the battery pack, and then disconnect any of the interconnecting cables.

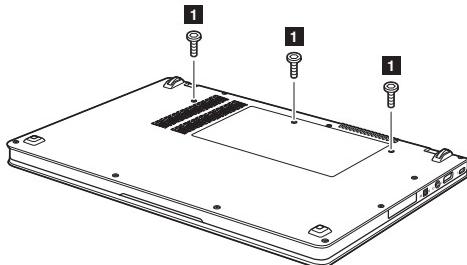
Attention: After replacing an FRU, do not turn on the computer until you have made sure that all screws, springs, and other small parts are in place and none are loose inside the computer. Verify this by shaking the computer gently and listening for rattling sounds. Metallic parts or metal flakes can cause electrical short circuits.

Attention: The system board is sensitive to, and can be damaged by, electrostatic discharge. Before touching it, establish personal grounding by touching a ground point with one hand or using an electrostatic discharge (ESD) strap (P/N 6405959) to remove potential shock reasons.

1010 Keyboard

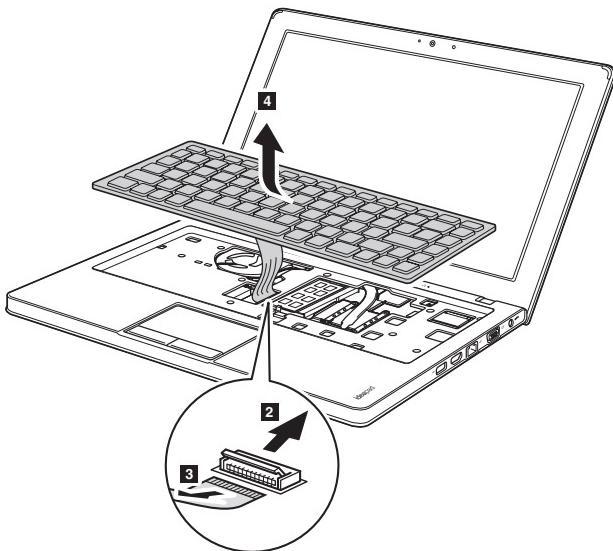
Figure 1. Removal steps of keyboard

Remove three screws ■.



Step	Screw (quantity)	Color	Torque
■	M2 × 5 mm, flat-head, nylok-coated (3)	Black	1.5~2.0 kgfcm

Lift the keyboard a little, and then detach the connector in the direction shown by arrows **2** **3**. Remove the keyboard in the direction shown by arrow **4**.



When installing: Make sure that the FPC connector is attached firmly.

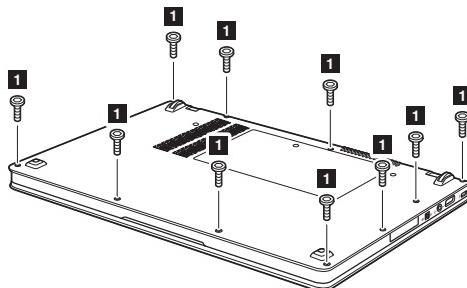
1020 Keyboard bezel

For access, remove this FRU:

- “1010 Keyboard” on page 34

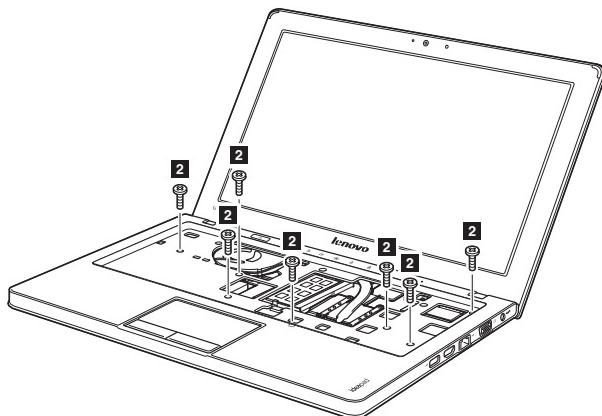
Figure 2. Removal steps of keyboard bezel

Remove ten screws ■ on the bottom.



Step	Screw (quantity)	Color	Torque
■	M2 × 5 mm, flat-head, nylok-coated (10)	Black	1.5~2.0 kgfcm

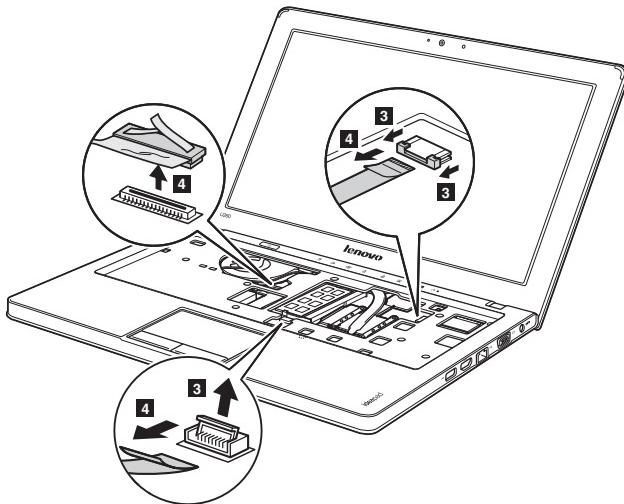
Remove seven screws 2.



Step	Screw (quantity)	Color	Torque
2	M2 × 5 mm, flat-head, nylok-coated (7)	Black	1.5~2.0 kgfcm

Figure 2. Removal steps of keyboard bezel (continued)

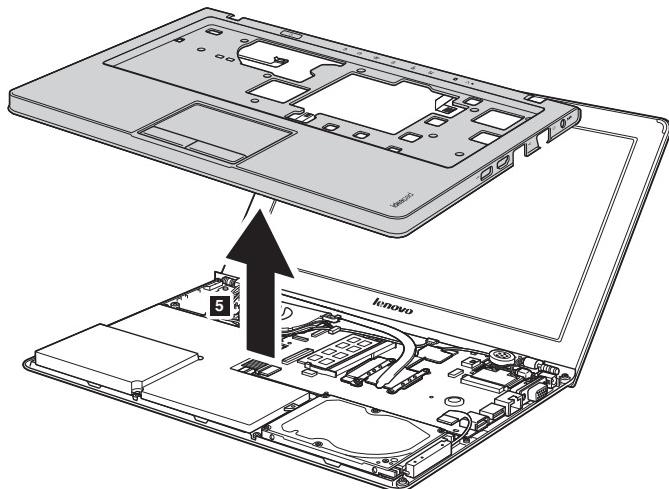
Detach two FPC connectors in the direction shown by arrows **3** **4**. Unplug the audio board connector in the direction shown by arrow **4**.



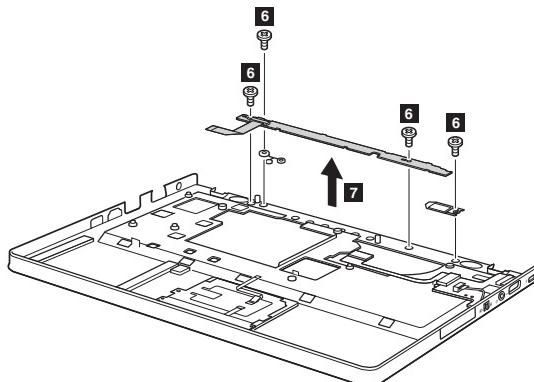
When installing: Make sure that all the connectors are attached firmly.

Figure 2. Removal steps of keyboard bezel (continued)

Remove the keyboard bezel in the direction shown by arrow **5**.



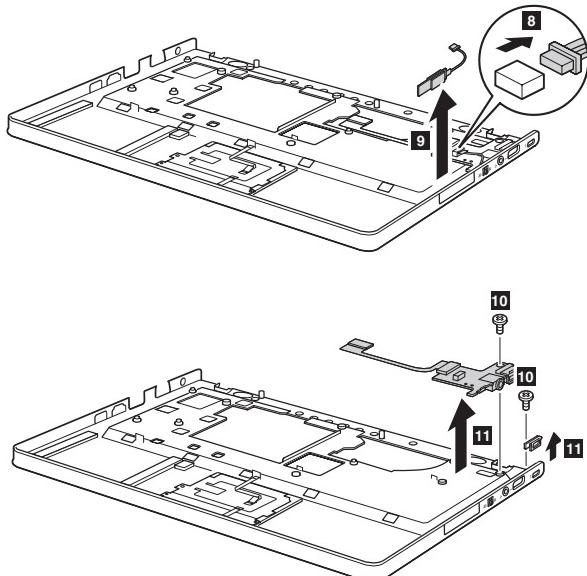
Remove four screws **6** and then remove the power button board in the direction shown by arrow **7**.



Step	Screw (quantity)	Color	Torque
6	M1.98 × 3 mm, flat-head, nylok-coated (4)	White	1.0~1.5 kgfcm

Figure 2. Removal steps of keyboard bezel (continued)

Detach the bluetooth card connector from the audio board in the direction shown by arrow **8** and then remove the bluetooth card **9**. Remove two screws **10** and remove the audio board and the K-Lock bracket from the keyboard bezel **11**.



Step	Screw (quantity)	Color	Torque
10	M1.98 × 3 mm, flat-head, nylok-coated (2)	White	1.0~1.5 kgfcm

1030 Battery pack

For access, remove these FRUs in order:

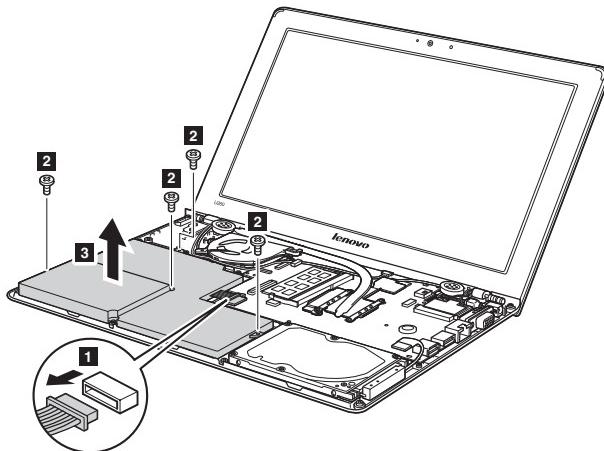
- “1010 Keyboard” on page 34
- “1020 Keyboard bezel” on page 35

⚠ DANGER

Only use the battery specified in the parts list for your computer. Any other battery could ignite or explode.

Figure 3. Removal steps of battery pack

Detach the battery pack connector in the direction shown by arrow **1**, remove four screws **2**, and then remove the battery pack **3**.



Step	Screw (quantity)	Color	Torque
2	M1.98 × 3 mm, flat-head, nylok-coated (4)	White	1.0~1.5 kgfcm

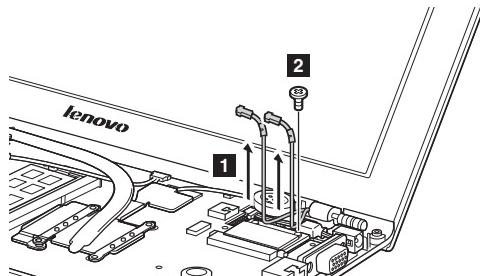
When installing: Make sure the battery pack connector is attached firmly.

1040 PCI Express Mini Card for wireless LAN

For access, remove these FRUs in order:

- “1010 Keyboard” on page 34
- “1020 Keyboard bezel” on page 35
- “1030 Battery pack” on page 39

Figure 4. Removal steps of PCI Express Mini Card for wireless LAN



Disconnect the two wireless LAN cables (black, white) ■, and then remove the screw ■.

In step ■, unplug the jacks by using the removal tool antenna RF connector (P/N: 08K7159), or pick up the connectors with your fingers and gently unplug them in the direction shown by arrows.

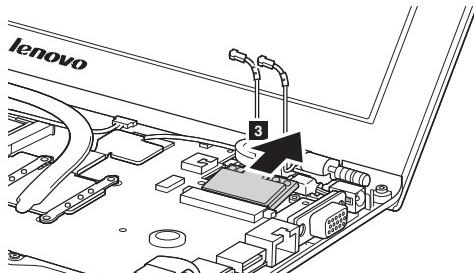
Notes: wireless LAN card has 2 cables in step ■.

wireless LAN card in some models may have 3 cables in step ■.

Step	Screw (quantity)	Color	Torque
■	M1.98 × 3 mm, flat-head, nylok-coated (1)	White	1.0~1.5 kgfcm

Figure 4. Removal steps of PCI Express Mini Card for wireless LAN (continued)

Remove the card in the direction shown by arrow **3**.



When installing:

- In models with a wireless LAN card that has two antenna connectors, plug the black cable (1st) (MAIN) into the jack labeled **1**, and the white cable (2nd) (AUX) into jack labeled **2** on the card.
- In models with a wireless LAN card that has three antenna connectors, plug the black cable (1st) (MAIN) into the jack labeled **1**, the grey cable (3rd) into jack labeled **3**, and the white cable (2nd) (AUX) into jack labeled **2** on the card.

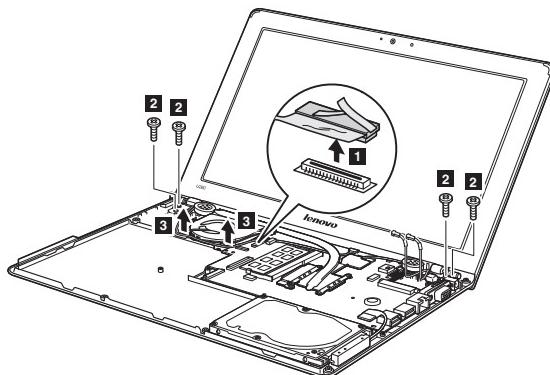
1050 LCD unit

For access, remove these FRUs in order:

- “1010 Keyboard” on page 34
- “1020 Keyboard bezel” on page 35
- “1030 Battery pack” on page 39
- “1040 PCI Express Mini Card for wireless LAN” on page 40

Figure 5. Removal steps of LCD unit

Unplug the LCD connector in the direction shown by arrow **1**. Remove four screws **2**. Release the LCD cable from the cable guides in the direction shown by arrows **3**.



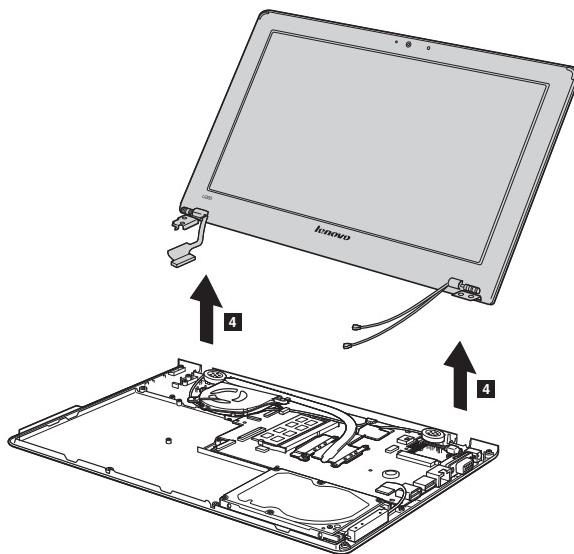
Step	Screw (quantity)	Color	Torque
2	M2.5 × 5 mm, flat-head, nylok-coated (4)	Black	1.5~2.0 kgfcm

When installing:

- Route the antenna cables along the cable guides. As you route the cables, make sure that they are not subjected to any tension. Tension could cause the cables to be damaged by the cable guides, or a wire to be broken.
- Make sure that the LCD connector is attached firmly and make sure that you do not pinch the antenna cables when you attach the LCD assembly. Route the LCD cable along the cable guides.

Figure 5. Removal steps of LCD unit (continued)

Remove the LCD unit in the direction shown by arrows 4.



1060 Hard disk drive

For access, remove these FRUs in order:

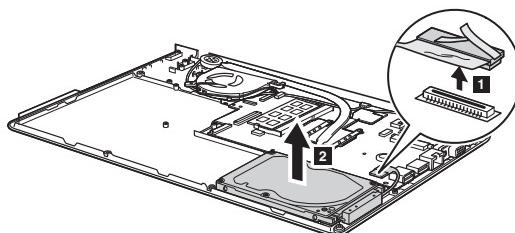
- “1010 Keyboard” on page 34
- “1020 Keyboard bezel” on page 35
- “1030 Battery pack” on page 39

Attention:

- **Do not drop the hard disk drive or apply any physical shock to it.** The hard disk drive is sensitive to physical shock. Improper handling can cause damages and permanent loss of data.
- Before removing the drive, suggest the customer to backup all the information on it if possible.
- Never remove the drive while the system is operating or is in suspend mode.

Figure 6. Removal steps of hard disk drive

Unplug the HDD connector in the direction shown by arrow **1**, and then remove the hard disk drive from the slot in the direction shown by arrow **2**.



When installing: Make sure that the HDD connector is attached firmly.

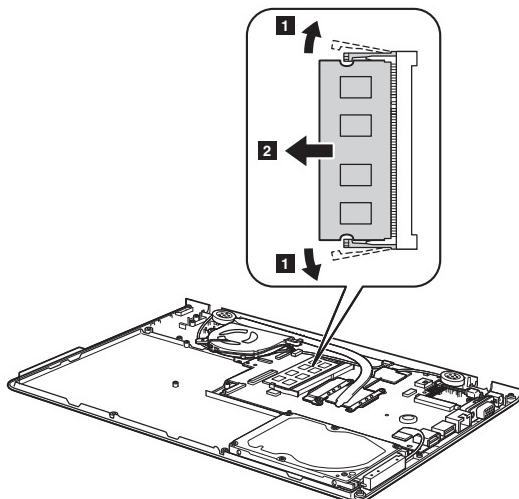
1070 DIMM

For access, remove these FRUs in order:

- “1010 Keyboard” on page 34
- “1020 Keyboard bezel” on page 35
- “1030 Battery pack” on page 39

Figure 7. Removal steps of DIMM

Release the two latches on both edges of the socket at the same time in the direction shown by arrows **1**, and then unplug the DIMM in the direction shown by arrow **2**.



When installing: Insert the notched end of the DIMM into the socket. Push the DIMM firmly, and pivot it until it snaps into the place. Make sure that it is firmly fixed in the slot and difficult to be moved.

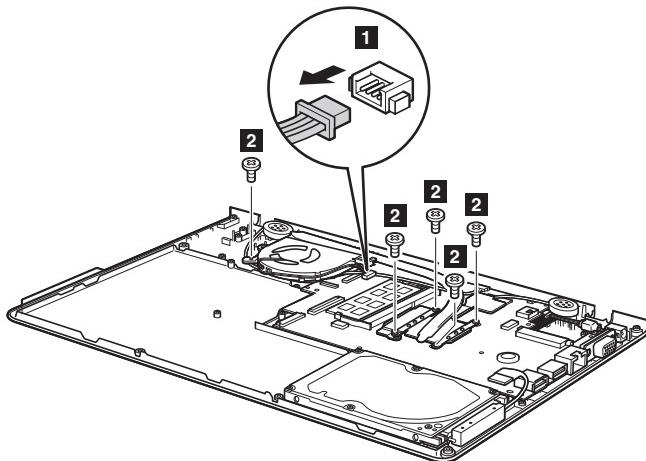
1080 Fan assembly and Heat Sink assembly

For access, remove these FRUs in order:

- “1010 Keyboard” on page 34
- “1020 Keyboard bezel” on page 35
- “1030 Battery pack” on page 39

Figure 8. Removal steps of fan assembly and heat sink assembly

Detach the fan connector in the direction shown by arrow **1** and remove five screws **2**.

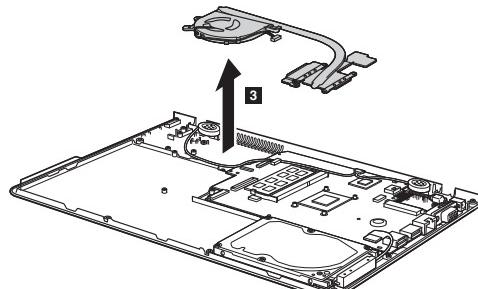


When installing: Make sure that the fan connector is attached firmly to the system board.

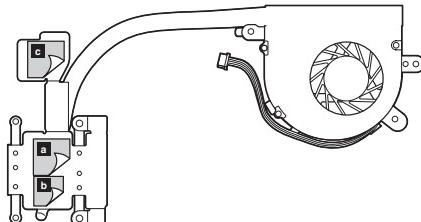
Step	Screw (quantity)	Color	Torque
2	M1.98 × 3, flat-head, nylok-coated (5)	White	1.0~1.5 kgfcm

Figure 8. Removal steps of fan assembly and heat sink assembly (continued)

Lift the fan assembly and heat sink assembly in the direction shown by arrow **3**.
Be careful not to damage the connector.



Attention: Do not handle the heat sink assembly roughly. Improper handling can cause distortion or deformation and imperfect contact with components.



When installing:

- Before you attach the fan assembly to the computer, apply thermal grease, at an amount of 0.2 grams, to the **a** **b** part shown in the figure above. Either too much or too less grease application can cause a thermal problem due to imperfect contact with a component. In models with the discrete graphics chip, there is an additional thermal rubber **c** whose film to be peeled off.

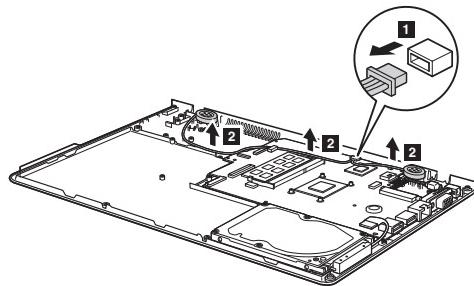
1090 Speakers

For access, remove these FRUs in order:

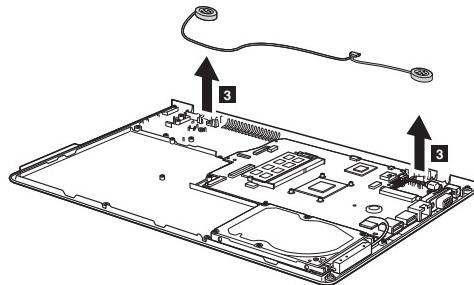
- “1010 Keyboard” on page 34
- “1020 Keyboard bezel” on page 35
- “1030 Battery pack” on page 39
- “1080 Fan assembly and Heat Sink assembly” on page 46

Figure 9. Removal steps of speakers

Detach the speakers connector in the direction shown by arrow **1**. Release the speaker cables from the cable guides in the direction showy by arrows **2**.



Remove the speakers **3**.



When installing: Make sure that the speakers connector is attached firmly.

1100 System board

Important notices for handling the system board:

When handling the system board, bear the following in mind.

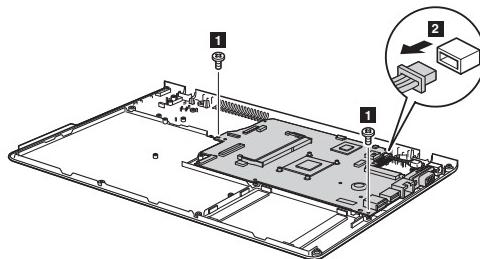
- Be careful not to drop the system board on a bench top that has a hard surface, such as metal, wood, or composite.
- Avoid rough handling of any kind.
- In the whole process, make sure not to drop or stack the system board.
- If you put a system board down, make sure to put it only on a padded surface such as an ESD mat or conductive corrugated material.

For access, remove these FRUs in order:

- “1010 Keyboard” on page 34
- “1020 Keyboard bezel” on page 35
- “1030 Battery pack” on page 39
- “1040 PCI Express Mini Card for wireless LAN” on page 40
- “1050 LCD unit” on page 42
- “1060 Hard disk drive” on page 44
- “1070 DIMM” on page 45
- “1080 Fan assembly and Heat Sink assembly” on page 46
- “1090 Speakers” on page 48

Figure 10. Removal steps of system board

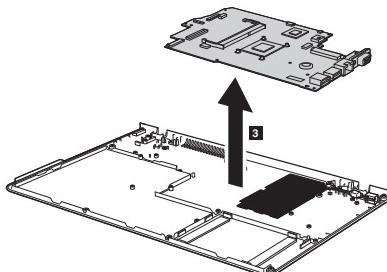
Remove two screws **1**, and detach the power connector and in the direction shown by arrow **2**.



When installing: Make sure that the power connector is attached firmly.

Step	Screw (quantity)	Color	Torque
1	M2 × 2.5 mm, flat-head, nylok-coated (2)	Black	1.0~1.5 kgfcm

Remove the system board in the direction shown by arrow **3**.



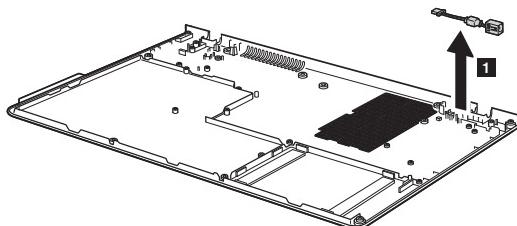
1110 Base cover

For access, remove these FRUs in order:

- “1010 Keyboard” on page 34
- “1020 Keyboard bezel” on page 35
- “1030 Battery pack” on page 39
- “1040 PCI Express Mini Card for wireless LAN” on page 40
- “1050 LCD unit” on page 42
- “1060 Hard disk drive” on page 44
- “1070 DIMM” on page 45
- “1080 Fan assembly and Heat Sink assembly” on page 46
- “1090 Speakers” on page 48
- “1100 System board” on page 49

Figure 11. Removal steps of base cover

Remove the power assembly in the direction shown by arrow **1**.



Note: Applying labels to the base cover

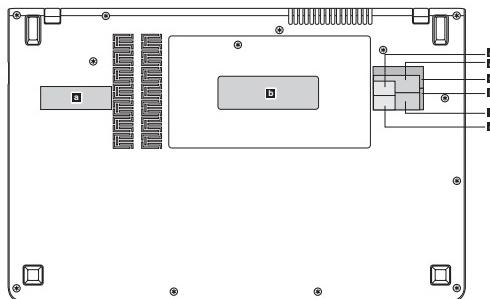
The new base cover FRU is shipped with a kit containing labels of several kinds. When you replace the base cover, you need to apply the following label:

The following labels need to be peeled off from the old base cover, and need to be put on the new base cover.

- a** PRC CODE Label
- b** COA Label
- c** SIRIM W/L Label
- d** SIRIM B/T Label
- e** W/L Label US/CA/TW/Israel/Indonesia
- f** B/T Label (US/CA/TW/Indonesia)
- g** W/L Label (Brazil)
- h** B/T Label (Brazil)

For some models, you also need to apply one or two FCC labels. Check the old base cover; if it has one or two FCC labels, find duplicates of them in the label kit and apply them to the new base cover.

For the location of each label, refer to the following figure:



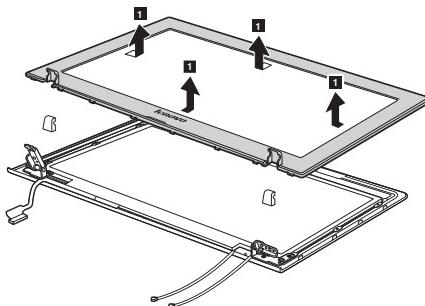
1120 LCD front bezel

For access, remove these FRUs in order:

- “1010 Keyboard” on page 34
- “1020 Keyboard bezel” on page 35
- “1030 Battery pack” on page 39
- “1040 PCI Express Mini Card for wireless LAN” on page 40
- “1050 LCD unit” on page 42

Figure 12. Removal steps of LCD front bezel

Remove the LCD front bezel in the direction shown by arrows ■.



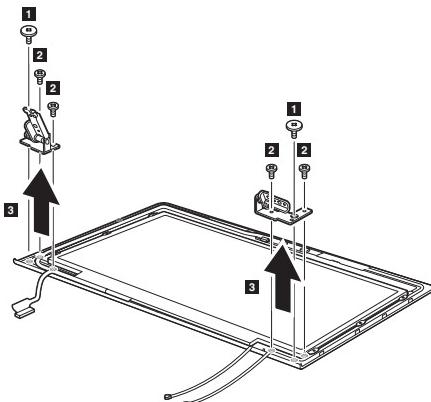
1130 LCD panel, LCD cable and hinges

For access, remove these FRUs in order:

- “1010 Keyboard” on page 34
- “1020 Keyboard bezel” on page 35
- “1030 Battery pack” on page 39
- “1040 PCI Express Mini Card for wireless LAN” on page 40
- “1050 LCD unit” on page 42
- “1120 LCD front bezel” on page 53

Figure 13. Removal steps of LCD panel, LCD cable and hinges

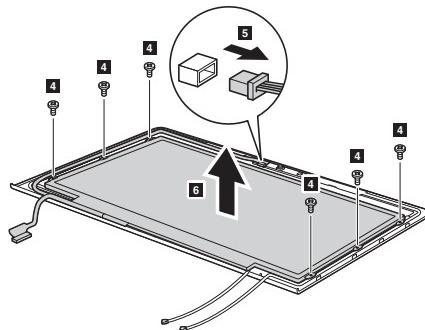
Remove two screws **1** and four screws **2**. Release the two hinges in the direction shown by arrows **3**.



Step	Screw (quantity)	Color	Torque
1	M2 × 3 mm, flat-head, nylok-coated (2)	Black	1.0~1.5 kgfcm
2	M1.98 × 3 mm, flat-head, nylok-coated (4)	White	1.0~1.5 kgfcm

Figure 13. Removal steps of LCD panel, LCD cable and hinges (continued)

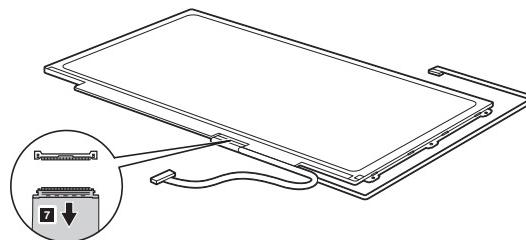
Remove six screws **4**, detach the integrated camera connector in the direction shown by arrow **5**. Remove the LCD panel in the direction shown by arrow **6**.



Step	Screw (quantity)	Color	Torque
4	M2 × 3 mm, flat-head, nylok-coated (6)	Black	1.0~1.5 kgfcm

Note: The LCD cables are attached to the LCD panel by a metal connector.

Peel off the adhesive tape and detach the connector in the direction shown by arrow **7**.



When installing: Make sure that the metal connector is attached firmly.

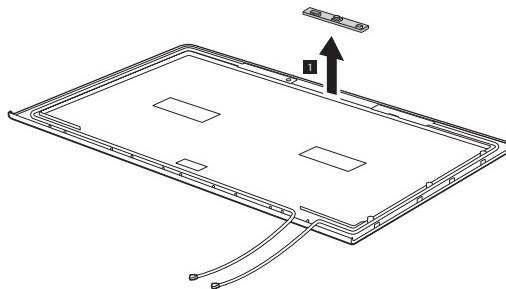
1140 Integrated camera

For access, remove these FRUs in order:

- “1010 Keyboard” on page 34
- “1020 Keyboard bezel” on page 35
- “1030 Battery pack” on page 39
- “1040 PCI Express Mini Card for wireless LAN” on page 40
- “1050 LCD unit” on page 42
- “1120 LCD front bezel” on page 53
- “1130 LCD panel, LCD cable and hinges” on page 54

Figure 14. Removal steps of integrated camera

Note: The integrated camera is stuck on the top center of the LCD cover.
Remove the integrated camera from the LCD cover ■.



When installing: Stick the integrated camera to the top center of the LCD cover and adjust the placement of it to make sure the connector is attached firmly.

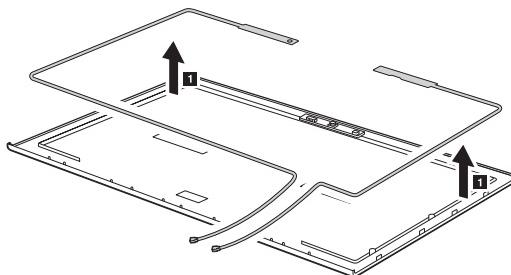
1150 Antenna assembly and LCD cover

For access, remove these FRUs in order:

- “1010 Keyboard” on page 34
- “1020 Keyboard bezel” on page 35
- “1030 Battery pack” on page 39
- “1040 PCI Express Mini Card for wireless LAN” on page 40
- “1050 LCD unit” on page 42
- “1120 LCD front bezel” on page 53
- “1130 LCD panel, LCD cable and hinges” on page 54

Figure 15. Removal steps of antenna assembly and LCD cover

Peel off the adhesive tapes securing the antenna boards, release the cables from the cable guide, and then remove the antenna assembly in the direction shown by arrows ■■■.

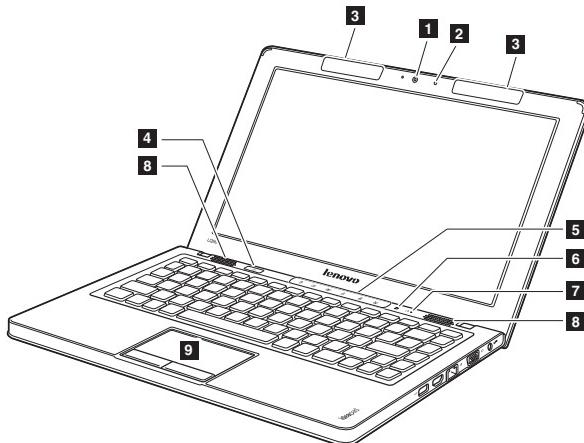


When installing: Route the antenna cables along the cable guides and secure the antenna boards with adhesive tapes. As you route the cables, make sure that they are not subjected to any tension. Tension could cause the cables to be damaged by the cable guides, or a wire to be broken.

Locations

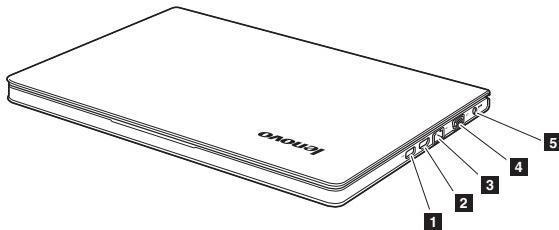
Front view

- 1 Integrated camera (Select models only)
- 2 Built-in microphone
- 3 Wireless module antennas (Select models only)
- 4 Power button
- 5 System status indicators
- Note:** For the description of each indicator, see "Status indicators" on page 29.
- 6 Ambient Light Sensor
- 7 OneKey Rescue system button
- 8 Speakers
- 9 Touchpad



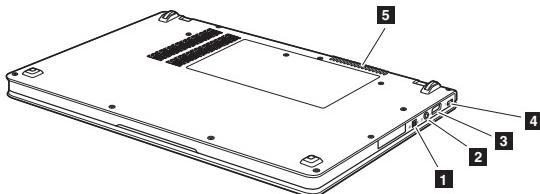
Right-side view

- 1 USB port
- 2 HDMI port (Select models only)
- 3 RJ-45 port
- 4 VGA port
- 5 AC power adapter jack



Bottom and Left-side view

- 1 Integrated wireless device switch (Select models only)
- 2 Headphone mic combo jack
- 3 USB port
- 4 Kensington slot
- 5 Fan louvers



Parts list

This section presents the following service parts:

- “Overall” on page 61
- “LCD FRUs” on page 64
- “Keyboard” on page 66
- “Miscellaneous parts” on page 67
- “AC adapters” on page 68
- “Power cords” on page 69

Notes:

- Each FRU is available for all types or models, unless specific types or models are specified.

Overall

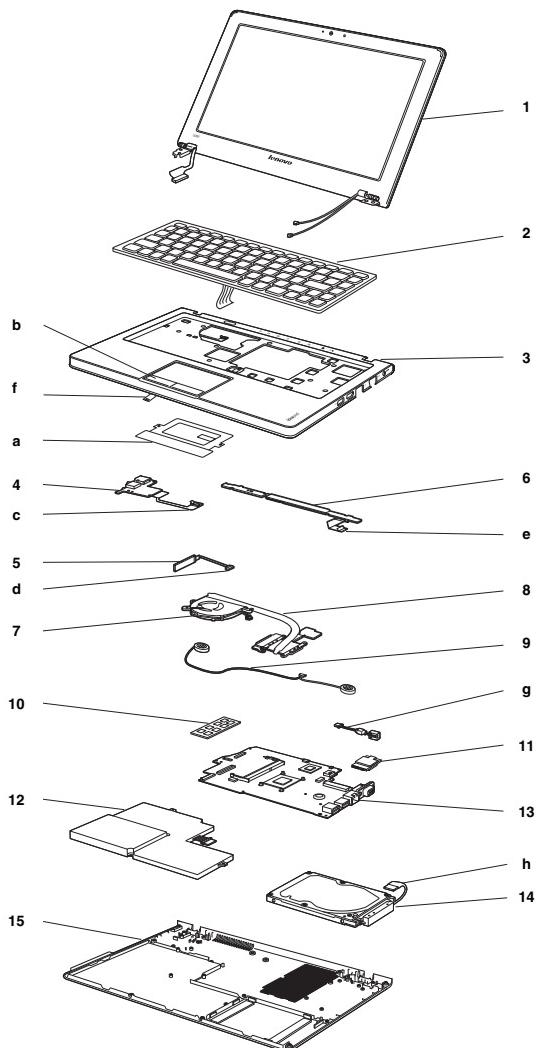


Table 5. Parts list—Overall

No.	FRU	FRU no.
a-i	See "Miscellaneous parts" on page 67.	
1	LCD unit (see "LCD FRUs" on page 64.)	
2	Keyboard (see "Keyboard" on page 66.)	
3	NIUM1 LOGIC UPPER ASSY W/TP GLASS & TP	31047065
4	NIUM1 AUDIO(WLAN SWITCH) BD 455NG338L01	31047060
5	Bluetooth card, BT2.1 + EDR, Fcn BCM92070 BT2.1 EDR Flash U NB	20002266
5	Bluetooth card, BT2.1 + EDR, USI BCM92070 BT2.1 EDR Flash U NB	20002326
6	NIUM1 POWER BUTTON BOARD 455NE938L01	31047059
7	NIUM1 FAN DC2800094A/S0	31047064
8	NIUM1 HEAT SINK AT0DZ0010C0	31047063
9	NIUM1 SPEAKER L+R PK23000DY00	31047068
10	DDRIII 1333 1GB, M471B2873FHS-CH9 (Rev F /1Gb/46nm)	11011936
10	DDRIII 1333 1GB, EBJ10UE8BDS0-DJ-F(Rev D /1Gb/65nm)	11011497
10	DDRIII 1333 1GB, RMT1910MD66E7F-1333 (V68A/2Gb/50nm)	11012427
10	DDRIII 1333 1GB, HMT312S6BFR6C-H9 N0 (Rev B/2Gb/44nm)	11012321
10	DDRIII 1333 1GB, RMT1950ED48E7F-1333 (Rev D /1Gb/65nm)	11012161
10	DDRIII 1333 1GB, RMT1950ED48E7W-1333 (Rev D /1Gb/65nm)	11012158
10	DDRIII 1333 2GB, M471B5673FH0-CH9 (Rev F /1Gb/46nm)	11011935
10	DDRIII 1333 2GB, EBJ21UE8BDS0-DJ-F(Rev D /1Gb/65nm)	11011496
10	DDRIII 1333 2GB, ELP EBJ21UE8BDS1-DJ-F DDR3 1333 2GB	11012424
10	DDRIII 1333 2GB, RMT1950MD58E8F-1333 (V68A/2Gb/50nm)	11012213
10	DDRIII 1333 2GB, HMT325S6BFR8C-H9 N0 (Rev B/2Gb/44nm)	11012197
10	DDRIII 1333 2GB, RMT1970ED48E8F-1333 (Rev D /1Gb/65nm)	11012160
10	DDRIII 1333 2GB, RMT1970ED48E8W-1333 (Rev D /1Gb/65nm)	11012157
10	DDRIII 1333 4GB, M471B5273CH0-CH9 (Rev C /2Gb/46nm)	11011934
10	DDRIII 1333 4GB, HMT351S6BFR8C-H9 N0 (Rev B/2Gb/44nm)	11012199
10	DDRIII 1333 4GB, MT16JSF51264HZ-1G4D1 (Rev V69/2Gb/50nm) 2010.3	11012320
11	WLAN card, 802.16e, Intel 6250NX MOW M PCIE NB HMC	20002321
11	WLAN card, 802.16e, Intel 6250GX MOW M PCIE NB HMC	20002388
11	WLAN card, 802.11 b/g/n(2*2), Gtc BCM43225 BGN MOW NB HMC	20002271
11	WLAN card, 802.11 b/g/n(2*2), Cbt AR9283 HB93 BGN MOW HMC NB	20002276
11	WLAN card, 802.11 b/g/n(1*1), Gtc BCM4313 M 802.11N MOW NB	20002347
11	WLAN card, 802.11 b/g/n(1*1), Cbt AR9285 HB95 BGN MOW NB	20002346
11	WLAN card, 802.11 b/g/n(1*1), Liteon AR9285 HB95 BGN MOW NB	20002357
11	WLAN card, 802.11 b/g/n(1*2), Intel 1000N MOW M PCIE NB HMC	20002329
12	Battery pack, 4 cell, 2300 mAh Polymer (fixed build in), U260 SMP L09M4P17 4S1P 35Wh Polymer bty	121001065

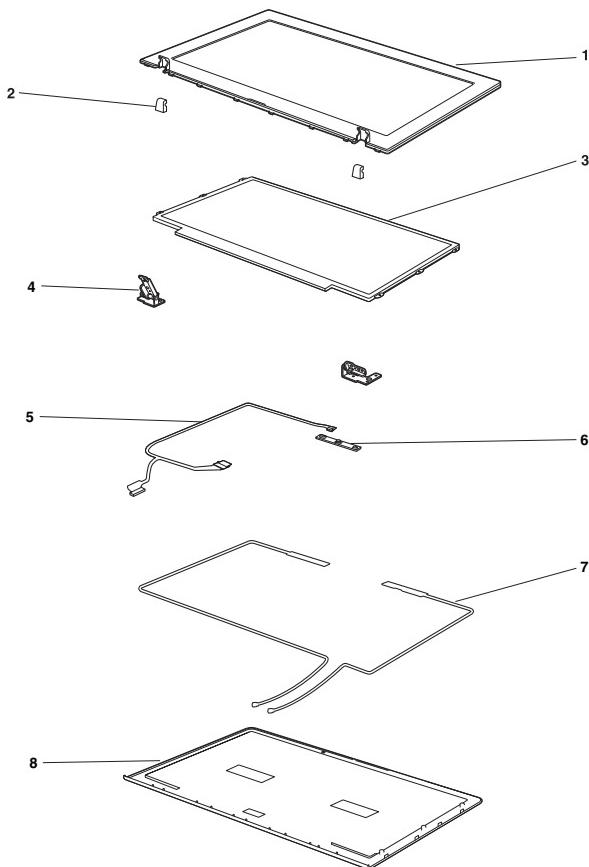
Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.
12	Battery pack, 4 cell, 2700 mAh Polymer (fixed build in), U260 SMP L09M4P16 4S1P 40Wh Polymer bty	121001044
13	NIUM1 MB ASSY-1.46G I7-680UM 46192638L01	11012936
13	NIUM1 MB ASSY-1.2G U5400 46192638L02	11012937
13	NIUM1 MB ASSY-1.33G I5-560UM 46192638L03	11012938
13	NIUM1 MB ASSY-1.33G I5-470UM 46192638L04	11012939
13	NIUM1 MB ASSY-1.33G I3-380UM 46192638L05	11012940
14	Hard disk drive, 160G 7mm 5400rpm SATA, Seagate ST91603010AS 5400RPM7MM 160G	16004767
14	Hard disk drive, 160G 7mm 5400rpm SATA, Hitachi HTS543216A7A384 5400RPM 160G	16005022
14	Hard disk drive, 250G 7mm 5400rpm SATA, Seagate ST92503010AS 5400RPM7MM 250G	16004768
14	Hard disk drive, 250G 7mm 5400rpm SATA, Hitachi HTS543225A7A384 5400RPM 250G	16005023
14	Hard disk drive, 320G 7mm 5400rpm SATA, Seagate 7mm 320g	TBD
14	Hard disk drive, 320G 7mm 5400rpm SATA, Hitachi HTS543232A7A384 5400RPM 320G	16005024
15	NIUM1 LOGIC LOWER-BROWN AM0DZ000310	31047066
15	NIUM1 LOGIC LOWER-ORANGE AM0DZ000300	31047067
—	AC adapter (see "AC adapters" on page 68).	

LCD FRUs

In Lenovo IdeaPad U260, there are following types of LCDs.

- “12.5-in. HD TFT”



12.5-in. HD TFT

Table 6. Parts list—12.5-in. HD TFT

No.	FRU	FRU no.
1	NIUM1 LCD BEZEL AP0DZ000100	31047049
2	NIUM1 HINGE CAP R&L-BROWN FA0DZ0009/A10	31047054
2	NIUM1 HINGE CAP R&L-ORANGE FA0DZ0009/A00	31047055
3	12.5" HD LED Panel, AUO B125XW01 V0 HD AG LED1 NB LCD	18004357
4	NIUM1 LCD HINGE R&L AM0DZ0004/500	31047053
5	NIUM1 LVDS CABLE W/CMOS DC020012W0/10	31047052
6	NIUM1 CAMERA 0.3M PK400009R/S00	31047051
7	NIUM1 WIMAX ANTENNADC33000QQ/S*0	31047050
8	NIUM1 LCD COVER-BROWN AM0DZ000610	31047047
8	NIUM1 LCD COVER-ORANGE AM0DZ000600	31047048

Keyboard

Table 7. Parts list—Keyboard

		P/N
Chicony	English	25011347
	U.K. English	25011455
	Italian	25011454
	Spanish	25011452
	Turkish	25011451
	Thai	25011453
	Portuguese	25011450
	Latin	25011449
	Canadian Bilingual (En+Fr)	25011448
	Korean	25011447
	Traditional Chinese	25011446
	Russian	25011445
	French	25011444
	German	25011443
	Arabic	25011441
	Brazilian	25011442
	Japanese	25011440
	Dutch	25011439
	Greek	25011438
	Hebrew	25011437
	Hungarian	25011436
	Nordic	25011435
	Belgian	25011434
	Icelandic	25011433
	Slovenian	25011432
	Swiss	25011431
	US international	25011346
	Bulgarian	25011345
	Czech&Slovak	25011344

Miscellaneous parts

Table 8. Parts list—Miscellaneous parts

FRU	P/N
System miscellaneous parts:	
• (a) NIUM1 TP BRACKET EC0DZ000300	31047056
• (b) NIUM1 TP BUTTON PK37B009G00	31047058
Cable miscellaneous parts:	
• (c) NIUM1 AUDIO BOARD CABLE DC020012V00	31047062
• (d) NIUM1 BT CABLE DC020012X00	31047070
• (e) NIUM1 POWER BUTTON BOARD FFC NBX0000Q100	31047061
• (f) NIUM1 TP FFC NBX0000Q000	31047057
• (g) NIUM1 DC-IN CABLE DC30100AR/BW00	31047069
• (h) NIUM1 HDD CABLE DC020012U/1B00	31047071
Note: Italicized letters in parentheses are references to the exploded view in "Overall" on page 61 .	

AC adapters

Table 9. Parts list—3-pin AC adapters

FRU	P/N
40W, Brazil PA-1400-12LB adapter	36001715
40W, Delta ADP-40NH B adapter	36001648
40W, Liteon PA-1400-12LC adapter	36001653
40W, HIPRO LN-A0403A3C adapter	36001672

Power cords

A Lenovo IdeaPad power cord for a specific country or region is usually available only in that country or region:

Table 10. Parts list—3-pin power cords

Region	P/N
CCC	145000602
• SSD YD-118-1+IEC53RVV+SSD-3-2B-1 1m	
CCC	145000600
• LINETEK PC323+RVV300/300+LS15 1m	
Argentina	145000599
• LINETEK LS15+H03VV-F+LP39 1m	
Danmark	145000598
• LINETEK LS15+H03VV-F+LP-38 1m	
Switzerland	145000597
• LINETEK LS15+H03VV-F+LP-37 1m	
Brazil	145000596
• LINETEK LS15 H03VV-F LP26A 1m	
Israel	145000595
• LINETEK LS15+H03VV-F+LP-41 1m	
UL	145000594
• LINETEK LP-30B + SPT-2 + LS15 1m	
UK	145000593
• LINETEK LP-61L+ H03VV-F+ LS15 1m	
Indian	145000592
• LINETEK PE-361+ H05VV-F+ LS15 1m	
Italy	145000591
• LINETEK LS15+H03VV-F+PE-336 1m	
Korea	145000590
• LINETEK LS15+H05VV-F+LP-E04A 1m	
Australia	145000589
• LINETEK LS15+H03VV-F+LP-23A 1m	
Taiwan	145000588
• LINETEK LS15+VCTF+LP-53 1m	
Japan	145000587
• LINETEK LS15+VCTF+LP-54 1m	
Africa	145000586
• LINETEK LS15+H03VV-F+PE-364 1m	
CE	145000585
• LINETEK LP-34+H03VV-F + LS15 1m	
CCC	145000568
• Longwell LSG-31+RVV300/300+LS-18 1m	
Argentina	145000567
• Longwell LP-24+H03VV-F+LS-18 1m	
Danmark	145000566
• Longwell LP-40+H03VV-F+LS-18 1m	
Switzerland	145000565
• Longwell LP-37+H03VV-F+LS-18 1m	

Table 10. Parts list—3-pin power cords (continued)

Region	P/N
Brazil	145000564
• Longwell LP-46+H03VV-F+LS-18 1m	
Israel	145000563
• Longwell LP-41+H03VV-F+LS-18 1m	
UL	145000562
• Longwell LP-30B+SPT-2 18AWG+LS-18 1m	
UK	145000561
• Longwell LP-61L+H03VV-F+LS-18 1m	
Indian	145000560
• Longwell LP-67+BIS+LS-18 1m	
Italy	145000559
• Longwell LP-22+H03VV-F+LS-18 1m	
Korea	145000558
• Longwell LP-486+KTLH03VV-F+LS-5 1m	
Australia	145000557
• Longwell LP-23A+LFC-3R+LS-18 1m	
Taiwan	145000556
• Longwell LP-71+VCTF+LS-33 1m	
Japan	145000555
• Longwell LP-54+VCTF+LS-18 1m	
Africa	145000554
• Longwell LP-39+H03VV-F+LS-18 1m	
CE	145000553
• Longwell LP-34A+H03VV-F+LS-18 1m	
CCC	145000538
• VOLEX GB10S3+RVV 300/500+VAC5S 1m	
UL	145000537
• Volex US15S3+SPT-2+VAC5S 1m	
UK	145000605
• VOLEX MP5004+H03VV-F+VAC5S 1m	
Indian	145000536
• VOLEX IA6A3+IS694+VAC5S 1m	
Switzerland	145000524
• VOLEX MP232+H03VV-F+VAC5S 1m	
Italy	145000535
• VOLEX IT10S3+HO3VV-F+VAC5S 1m	
Denmark	145000534
• VOLEX MP233D+H03VV-F+VAC5S 1m	
Korea	145000533
• VOLEX M2511+KETI IEC+VAC5S 1m	
Australia	145000532
• VOLEX AU10S3+H03VV-F+VAC5S 1m	
Taiwan	145000531
• VOLEX TW15CS3+VCTF+VAC5S 1m	

Table 10. Parts list—3-pin power cords (continued)

Region	P/N
Japan	145000530
• VOLEX VAC5S+VCTF+M755 1m	
Argentina	145000528
• Volex LP-24+H03VV-F+LS-18 1m	
Brazil	145000527
• VOLEX CH10S3+H03VV-F+VAC5S 1m	
Israel	145000526
• VOLEX SI16S3+H03VV-F+VAC5S 1m	
Africa	145000529
• Volex LP-39+H03VV-F+LS-18 1m	
CE	145000525
• VOLEX M2511+HO3VV-F+VAC5S 1m	

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